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REVIEW OF HYDROGEOLOGIC INVESTIGATIONS
AT THE J.F. QUEENY PLANT,
MONSANTO CHEMICAL COMPANY,
ST. LOUIS, MISSOURI

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REVIEW OF HYDROGEOLOGIC INVESTIGATIONS
AT THE J.F. QUEENY PLANT,
MONSANTO CHEMICAL COMPANY,
ST. LOUIS, MISSOURI

INTRODUCTION

At the request of Monsanto Chemical Company, Geraghty & Miller, Inc. has prepared this summary report of hydrogeologic investigations conducted at the J.F. Queeny plant, St. Louis, Missouri. The purpose of this study was to summarize the work completed to date and present the results in a single document. Most of the hydrogeological and chemical data contained in this report were developed by others. However, hydrogeologic studies are continuing at the plant to verify and supplement the existing data base.

The existing monitoring well network and data base have been developed from hydrogeologic investigations conducted by Environmental Science and Engineering, Inc. (ESE), Brotcke Engineering Company, Inc. (BEC), and Geraghty & Miller, Inc. In addition to a general study to assess site-wide ground-water quality, detailed investigations were conducted in the vicinity of the Lasso Production Area and FF Building. A review of the site-specific hydrogeology and ground-water quality is presented, followed by a summary of

the Lasso Production Area and FF Building investigations. Well construction details, water-level information, and analytical results are presented in Tables 1 through 11 and Figures 1 through 15.

PREVIOUS INVESTIGATIONS

Hydrogeologic investigations at the Queeny plant began in 1983 with the installation of 16 plant-wide monitoring wells under the supervision of ESE (Phase I wells). ESE installed 12 additional plant-wide wells in 1984 to fill data gaps (Phase II wells). Many of the monitoring wells were installed in clusters, consisting of two wells which tap different intervals within the aquifer.

Two hydrogeologic investigations were conducted in specific areas of the plant (FF Building and the Lasso Production Area) to develop more detailed information in these areas. In 1985, several soil borings and three additional monitoring wells were also installed under the direction of ESE near the FF Building to assess the impact of a tetrachloroethylene (perchloroethylene [PCE]) release to the ground. In 1987, BEC installed four PCE recovery wells in this area after ESE had completed the initial phase of work.

In a separate investigation conducted in 1986, Geraghty & Miller personnel observed the installation of several soil

borings and five monitoring wells in the vicinity of the Lasso Production Area. Well locations for each study are shown on Figure 1, and well construction details are summarized in Table 1.

HYDROGEOLOGY

Geology

The J.F. Queeny plant is situated on flood-plain deposits composed of predominantly fine- to coarse-grained sand and gravel, with local layers of silt and clay. These unconsolidated deposits are underlain by bedrock composed of limestone. A generalized geologic cross section of the plant area is presented in Figure 2 which illustrates an irregular bedrock surface. In general, fill material is present in some of the plant area to depths as much as 17 ft below land surface. The fill material is underlain by fine-grained silt and clay which rests on bedrock in the southern portion of the plant where bedrock is found at shallow depths. In the areas where bedrock is found at the greatest depths, coarser sand and gravel underlie the less permeable fine-grained materials, which, in turn, are underlain by additional fine-grained deposits in most areas. The geologic logs are provided in Appendix A.

The thickness of the unconsolidated deposits increases toward the Queeny plant's eastern property boundary and probably beyond the plant property to the Mississippi River. Bedrock occurs at approximately 10 ft below land surface in the vicinity of the Lasso Production Area (bedrock high), and it is found at greater depths in other areas within the plant property. In the southeastern portion of the plant property, a quarry of undetermined depth is known to have existed in the past. The geologic logs for well cluster MW11 indicate that the quarry has been filled with native unconsolidated material and fill (bricks, concrete, etc.). The drilling of the deepest well in this cluster (MW11A) extended to 83 ft below land surface and did not encounter bedrock. Depths to bedrock within the plant area are presented in Table 1.

Ground-Water Flow Patterns

Maps showing seasonal fluctuations of the water table are presented in Figures 3, 4, and 5. Data for all water-level measurements collected at the Queeny site are summarized in Table 2. Figures 3 and 4 show a mounding of the water-table beneath the southern portion of Monsanto's Queeny property. This area is discussed in more detail in the section of this report that describes the Lasso Production Area investigation. The mound is not as prominent in

Figure 5, which represents water-table conditions during the fall (dry) season. The mound may be explained by seasonal water-level fluctuations in conjunction with a shallow depth to bedrock (about 10 ft) in that portion of the facility and changes in permeability. The horizontal component of ground-water flow is generally toward the east. Although there are local components of flow in other directions within the plant boundaries, ground water ultimately discharges into the Mississippi River.

A vertical component of ground-water flow was determined from well clusters MW1AB, MW6AB, MW7AB, MW8AB, MW11AB, and MW18AB (Table 2). The vertical direction of ground-water flow is generally downward, although water-level data for clusters MW1AB, MW6AB, MW7AB, and MW11AB indicated upward flow periodically. Since September 1985, there has been a consistently upward gradient in cluster MW1AB, with as much as 2.5 ft of head difference between the wells. The occasional upward head in well clusters MW6AB and MW7AB may be related to seasonal fluctuations, as seen by head differences as great as 4 ft during June 1987. The predominantly upward head in well cluster MW11AB (maximum head difference of 2 ft in December 1986) may reflect a ground-water discharge area. Conversely, well clusters MW8AB and MW18AB have shown consistently downward flow, indicating that these

are ground-water recharge areas (northern portion of the facility). Well construction details are provided in Appendix A.

Ground-Water Velocity

ESE conducted slug tests in 19 of the 41 existing monitoring wells to determine the hydraulic conductivity of the unconsolidated deposits. The mean hydraulic conductivity of the upper 30 ft of material is about 3×10^{-5} ft/sec (ft/second) (9×10^{-4} centimeters per second [cm/sec]). Below 30 ft, the hydraulic conductivity is approximately one-half that of the upper 30 ft and is about 1×10^{-5} ft/sec (4×10^{-4} cm/sec). The average hydraulic conductivity for both zones is 2×10^{-5} ft/sec and this value was used in estimating ground-water flow velocities.

The maximum and minimum lateral ground-water flow velocities of 0.5 ft/day (182 ft/year) and 0.06 ft/day (22 ft/year) were calculated by using the average value for hydraulic conductivity, a hydraulic gradient range of 0.007 to 0.05 determined from Figures 3, 4, and 5, and an assumed effective porosity of 20 percent.

The velocity values were determined from the following form of Darcy's law:

$$V = \frac{(KI) (86,400 \text{ sec/day})}{n}$$

where:

V = velocity in ft/day
 K = hydraulic conductivity, in ft/sec
 I = hydraulic gradient, in ft/ft, and
 n = effective porosity, which is dimensionless.

The maximum velocity (1 ft/day) was calculated using the steepest water-table gradient of 13.5 ft/285 ft (0.05) from the December 1986 water-table configuration (Figure 4) in the area of well clusters 7AB and 18AB. The minimum velocity (0.006 ft/day) was determined using the minimum water-table gradient of 13 ft/1,880 ft (0.007) from the April 1985 water-table configuration, north of the mounded area (Figure 3).

GROUND-WATER QUALITY

Ground-water samples have been collected from the Phase I and Phase II monitoring well network (MW1AB through MW20) during eight sampling periods since April 1984 (Tables 3 through 7). At the time of the first three sampling rounds in 1984, only Phase I wells were installed, and Envirodyne Engineering, Inc. of St. Louis, Missouri, performed the analytical work. Subsequent sampling rounds included Phase I

and Phase II wells, and analyses were performed by Environmental Testing and Certification Laboratories (ETC) of Edison, New Jersey. However, only key wells were sampled during the 1986 sampling program.

Ground-water samples were analyzed for the U.S. Environmental Protection Agency (USEPA) priority pollutant compounds, nonpriority pollutant compounds, and total organic carbon (TOC). Analytical results for volatile organic compounds (VOCs), acid extractable organic compounds, base/neutral extractable organic compounds (B/N), pesticides and polychlorinated biphenyls (PCBs), metals, and miscellaneous parameters are presented in Tables 3 through 7, respectively. Nonpriority pollutants were analyzed and some compounds have been identified; however, most of the compounds could not be quantified. Distribution of the mean total VOCs, acid extractable organic compounds, and B/N compounds are illustrated on Figures 6, 7, and 8, respectively. Neither pesticides nor PCBs were detected in any of the monitoring wells.

Priority Pollutant Organic Parameters

The overall comparison between Envirodyne and ETC data sets is satisfactory, indicating that one laboratory generally confirms the results of the other. There are some dif-

ferences, however, which are generally limited to several VOCs for specific wells. The chlorobenzene results for Wells MW3, MW4, MW6A, MW8A, and MW19 vary by three to four orders of magnitude. Although the results provided by ETC are more consistent than Envirodyne's data, there are several other VOCs with similar fluctuations in the reported results; however, these compounds are limited to Wells MW3 and MW6A. Inconsistencies within the data base were not found for the other organic groups in the priority pollutant list.

At well cluster locations 6AB, 7AB, 8AB, and 18AB in the northern portion of the plant property, the deeper well at each location has higher mean total VOCs (Figure 6). This relationship is also true for mean total acid and B/N concentrations at well clusters MW8AB and MW18AB. These data indicate that the portion of the aquifer deeper than 30 ft below land surface contains a higher concentration of dissolved organic compounds than the uppermost portion of the saturated zone in this area of the plant.

In the southern half of the plant area, high mean total VOC concentrations occur in the vicinity of the ground-water mound at MW4, MW13, MW14, and MW19. Wells MW4, MW14, and MW19 are shallow and are screened to bedrock because the

aquifer is thin. Well MW13 screens the upper and lower saturated zones (8 to 48 ft).

Nonpriority Pollutant Organic Parameters

Envirodyne Engineers and ETC have tentatively identified, from mass spectral data, a number of organic compounds that are not on the USEPA priority pollutant list (Table 8). This list of organic parameters was not divided into chemical categories (volatile organics, acid extractable, and base/neutral extractable organic compounds) because the category for many of the compounds could not be agreed upon by the analytical laboratories. These results have not been evaluated in detail because some concentrations could only be estimated and most compounds could not be quantified.

The number of wells in which each of these compounds occurred was tabulated and is included in Table 8. The majority of the compounds were detected only once and could not be confirmed in subsequent analyses. The number of compounds detected in each well is also provided in Table 8. At the two upgradient well clusters (MW1AB and MW2AB), 20 or more compounds were tentatively identified for each cluster, with the greater number of compounds being found in the deeper well. The on-site presence of these compounds (if

they are accurately identified) may be attributed to another source(s). Well clusters MW7AB and MW8AB contained the largest number of nonpriority pollutant compounds.

Priority Pollutant Metals

The concentrations of many of the metals analyzed by Envirodyne Engineers in 1984 are significantly higher than the 1985 and 1986 results reported by ETC (Table 7). Concentrations of metals reported by Envirodyne in the background well clusters (MW1AB and MW2AB) are higher in many cases than the results reported for the downgradient well locations.

Resampling the wells in 1985 and 1986, with analysis by ETC, provided results with greater consistency. For this reason, and also because of the superior reproducibility of ETC's results compared to Envirodyne's, Geraghty & Miller has little confidence in Envirodyne's data.

PERCHLOROETHYLENE INVESTIGATION

In April 1985, ESE was retained by Monsanto to conduct a hydrogeologic investigation in the vicinity of the FF Building. The study was prompted by the discovery of per-

chloroethylene (PCE) in an underground utility manhole located west of the FF Building (Figure 1). The field investigation included soil sampling at eight locations and the installation and sampling of three monitoring wells in the vicinity of an underground PCE tank that may have leaked. Sampling locations are shown on Figure 9.

Borings were drilled by hollow-stem auger equipment. Split-barrel core samples were collected every 2.5 ft to the water table (approximately 12 to 15 ft below land surface). All soil samples were screened with a photoionization meter (HNU), and the sample within each borehole displaying the highest HNU reading was retained for soils analysis. These soil samples were sent to ETC for PCE analysis. The analytical results are presented in Table 9 and on Figure 10. Evaluation of the soil sampling analyses indicates that PCE was detected in four of seven samples analyzed, and the concentration decreases rapidly with distance from the storage tank. The highest PCE concentration in soil was detected at Boring E, located about 4 ft west of the tank.

ESE installed three monitoring wells to assess the effect of the PCE release on ground water. Monitoring Wells MW-A and MW-B were installed adjacent to the PCE storage tank; together they screen the entire saturated thickness of unconsolidated materials overlying the bedrock. Monitoring

Well MW-C was drilled east of the tank to provide additional water-quality information. Well construction details are provided in Table 1. Well MW-3 is located west of the tank and was installed during a previous study.

Ground-water samples were collected from the three monitoring wells on May 23, 1985. Well MW-A was observed to have a separate liquid phase at the bottom of the well, and a sample of the liquid was collected. Free-phase liquid was not observed in any of the other three wells sampled. The five samples were analyzed for PCE by ETC, and the analytical results are provided in Table 10 and Figure 11. Ground-water analyses show that PCE was present in Wells MW-A and MW-B at 225,832 micrograms per liter (ug/L) and 27,954 ug/L, respectively. A free-phase liquid in Well MW-A was analyzed and found to contain 859,560,000 ug/L PCE. Ground-water samples from Wells MW-C and MW-3 showed no PCE contamination (Figure 11).

Monsanto designed a recovery system which involved the installation of four wells (supervised by BEC) to the north of FF Building (Figure 9). The recovery wells were installed 5 ft into bedrock with air-rotary equipment. Recovery Wells REC-3 and REC-4 began pumping in February 1987, and Wells REC-1 and REC-2 started in April 1987. A

pure-phase PCE layer was observed in the recovery tank immediately after pumping began in February, after which no additional PCE was recovered. The recovery wells were designed to pump approximately 1 gallon per minute (gpm) with the intent of creating a cone of influence to bedrock, thereby collecting the PCE layer (which is denser than water). Bedrock was found at 60 ft below land surface, rather than at the anticipated 30 ft, thus the saturated thickness of unconsolidated material was significantly greater than expected. This increased thickness required greater aquifer pumping capacity. Aquifer testing of Wells REC-3 and REC-4 showed that a pumping rate of 20 gpm in these wells did not lower the water table. However, if a free-product layer was resting on the bedrock surface at the recovery well locations, it would have been drawn into the wells. No PCE was recovered after the initial slug was removed.

LASSO INVESTIGATION

Geraghty & Miller, Inc. was retained by Monsanto in September 1986 to conduct a ground-water investigation in the vicinity of the Lasso Production Area. The objectives of the study were to determine the depth and areal extent of free-phase product which had been detected in an existing

well (MW14), and to map the local ground-water flow directions.

Ten soil borings were drilled by hollow-stem auger equipment and five were completed as monitoring wells. Boring and well locations are shown on Figure 12. Continuous soil samples were collected at 2-ft intervals down to bedrock to describe the geology and possible free-product occurrence. Soil samples revealed the subsurface to be clay and silt, rather than sand or fill as previously identified, except in a local area near MW14. Apparently, MW14 was installed in a small area that was excavated at some time in the past, and it is presently filled with coarse backfill material. Soil in Borings B-2 and B-5 was stained to a depth of 4 ft below land surface; however, free product was not observed in any of the ten soil borings.

Water-level measurements were made in each new well on December 1, 1986, and the configuration of the water table is shown on Figure 13. As discussed earlier, the ground-water mound that is usually present in this area may be the result of a shallow depth to bedrock (about 10 ft), seasonal water-level fluctuations, and changes in permeability. The overburden in this area consists of low-permeable silts and clay overlying bedrock, with fill material in the vicinity

of MW14. These variable deposits most likely will have a large range of permeability values. Their effect on the configuration of the water table could result in mounded conditions.

Ground-water samples were collected from the Geraghty & Miller wells (GM-1 through GM-5) and from Well MW14, in November 1986. Free product was only found in the bottom of Well MW14, in which approximately 3 inches had been measured. Samples were analyzed by Monsanto's laboratory for constituents associated with Lasso production, including alachlor and chlorobenzene (primary components in Lasso formulation), diethylaniline (raw material), acetyl alachlor, and CP31679 (by-products). The analytical results are provided in Table 11, and the distribution of these compounds is shown on Figures 14 and 15. However, free product only occurs in the soil in a small area confined to the coarse (backfill) material in which Well MW14 was completed. Free product has not been collected from this area because the volume appears to be too small to recover.

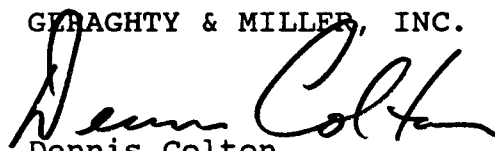
SUMMARY

The hydrogeologic investigations conducted to date by ESE, BEC, and Geraghty & Miller have been performed to provide site-wide knowledge of the ground-water system, as well

as to collect site-specific information in the vicinity of the FF Building and the Lasso Production Area. This work provides a substantial data base for water-level and water-quality data. However, hydrogeologic studies are continuing at the plant to verify and supplement the information contained in this report.

Respectfully submitted,

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Table 1. Summary of Construction Details for Monitoring and Recovery Wells, J.F. Queeny Plant, Monsanto Chemical Company, St. Louis, Missouri.

Well Designation	Date Installed	Measuring Point Elevation (1)	Well Diameter (Inches)	Construction Material	Screen Slot Size (Inches)	Total Depth of Well (2)	Height of		Depth To Bedrock (3)
							Screen Setting (3)	Measuring Point Above Land Surface (ft)	
MW1A	10/7/83	430.07	2	PVC	0.02	47	35-45	2.0	59
MW1B	10/6/83	429.82	2	PVC	0.02	30	17.5-27.5	2.5	59
MW2A	10/11/83	430.77	2	PVC	0.02	50	38.5-48.5	1.5	48.5
MW2B	10/10/83	430.70	2	PVC	0.02	27.5	15.5-25.5	2.0	48.5
MW3 (MW-D)	9/30/83	425.41	2	PVC	0.02	33	21-31	2.0	31.5
MW4	9/27/83	427.33	2	PVC	0.02	19	7-17	2.0	17.5
MW5	9/28/83	426.11	2	PVC	0.02	17	5-15	2.0	17
MW6A	9/29/83	426.82	2	PVC	0.02	44.5	32-42	2.5	50
MW6B	11/20/84	426.57	2	PVC	0.02	27.5	10-25	2.5	50
MW7A	10/5/83	422.18	2	PVC	0.02	52	40-50	2.0	95
MW7B	10/6/83	422.54	2	PVC	0.02	33.5	21-31	2.5	95
MW8A	10/27/83	423.70	2	PVC	0.02	49	37-47	2.0	82.5
MW8B	10/27/83	423.67	2	PVC	0.02	35	23-33	2.0	82.5
MW 9	10/13/83	424.92	2	PVC	0.02	43	31-41	2.0	41.5
MW10	10/12/83	425.19	2	PVC	0.02	43.5	31.5-41.5	2.0	41.5
MW11A	10/20/83	426.20	2	PVC	0.02	80	68-78	2.0	--
MW11B	10/20/83	426.35	2	PVC	0.02	32	20-30	2.0	--
MW11C	11/6/84	426.23	2	PVC	0.02	27.5	10-25	2.0	--
MW12	12/11/84	424.03	2	PVC	0.02	21.5	6.5-21.5	0	23
MW13	11/14/84	425.98	2	PVC	0.02	50.5	8-48	2.5	--
MW14	12/10/84	425.92	2	Teflon	0.02	12	5-10	2.0	10
MW15	11/29/84	426.63	2	PVC	0.02	18	10.5-15.5	2.5	16
MW16	12/17/84	421.15	2	PVC	0.02	43.5	8.5-43.5	0	50
MW17	11/26/84	420.52	2	PVC	0.02	52.5	10-50	2.5	--
MW18A	11/30/84	423.17	2	PVC	0.02	81.5	39-79	2.5	81.5
MW18B	12/6/84	423.06	2	PVC	0.02	47.5	10-45	2.5	81.5
MW19	11/19/84	424.11	2	PVC	0.02	15.5	8-13	2.5	13
MW20	11/28/84	423.27	2	PVC	0.02	26.5	9-24	2.5	26.5
MW-A	5/85	---	2	Teflon	0.02	30	20-30	0	31.5
MW-B	5/85	---	2	Teflon	0.02	17	7-17	0	--
MW-C	5/85	---	2	PVC	0.03	20	10-20	0	--
REC-1	1/87	---	4	Stainless Steel	0.01	48	28-48	---	42
REC-2	1/87	---	4	Stainless Steel	0.01	64.5	44.5-64.5	---	58
REC-3	1/87	---	4	Stainless Steel	0.01	66	46-66	---	60
REC-4	1/87	---	4	Stainless Steel	0.01	71	51-71	---	66
GM-1	11/18/86	425.51	2	Stainless Steel	0.01	13.5	6.75-11.75	1.75	11.8
GM-2	11/18/86	425.46	2	Stainless Steel	0.01	11.75	4.75-9.75	2.0	9.8
GM-3	11/19/86	427.48	2	Stainless Steel	0.01	12.5	4.5-9.5	3.0	9.5
GM-4	11/20/86	424.28	2	Stainless Steel	0.01	9.5	5-10	-0.5	9.5
GM-5	11/21/86	424.53	2	Stainless Steel	0.01	16.5	6.5-16.5	-0.5	16.5

(1) Elevation in feet above mean sea level.

(2) Depth in feet below measuring point.

(3) Depth in feet below land surface.

--- Indicates unknown.

All wells installed by ESE except for the following:

REC series wells installed by Brotcke Engineering Company.

GM series wells installed by Geraghty and Miller, Inc.

Table 2. Water-Level Elevations in Monitoring Wells, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

October 31-November 2, 1984				January 2, 1985	
Well Designation	Measuring Point (1) Elevation	Depth to Water (2)	Water Level Elevation	Depth to Water	Water Level Elevation
MW1A	430.07	20.77	409.3	18.6	411.47
MW1B	429.82	19.62	410.2	17.4	412.42
MW2A	430.77	20.47	410.3	17.6	413.17
MW2B	430.70	18.20	412.5	15.0	415.70
MW3	425.41	13.81	411.6	11.9	413.51
MW4	427.33	7.23	420.1	6.6	420.73
MW5	426.11	11.31	414.8	8.6	417.51
MW6A	426.82	17.72	409.1	14.9	411.92
MW6B	426.57	--	--	15.6	410.97
MW7A	422.18	29.78	392.4	24.0	398.18
MW7B	422.54	29.24	393.3	23.8	398.74
MW8A	423.70	32.40	391.3	24.6	399.10
MW8B	423.67	22.97	400.7	22.4	401.27
MW9	424.92	20.42	404.5	16.6	408.32
MW10	425.19	21.39	403.8	16.5	408.69
MW11A	426.20	12.30	413.9	11.4	414.80
MW11B	426.35	12.55	413.8	11.7	414.65
MW11C	426.23	--	--	11.4	414.83
MW12	424.03	--	--	7.7	416.33
MW13	425.98	--	--	11.1	414.88
MW14	425.92	--	--	3.8	422.12
MW15	426.63	--	--	12.1	414.53
MW16	421.15	--	--	8.7	412.45
MW17	420.52	--	--	11.2	409.32
MW18A	423.17	--	--	24.1	399.07
MW18B	423.06	--	--	10.1	412.96
MW19	424.11	--	--	10.3	413.81
MW20	423.27	--	--	8.9	414.37

- 1) Elevation in feet above mean sea level.
 2) Depth to water in feet below measuring point.

Table 2. Water-Level Elevations in Monitoring Wells, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Designation	Measuring Point (1) Elevation	February 27-28, 1985		March 27-29, 1985		April 17-24, 1985	
		Depth to Water (2)	Water Level Elevation	Depth to Water	Water Level Elevation	Depth to Water	Water Level Elevation
MW1A	430.07	18.5	411.57	18.3	411.77	16.2	413.87
MW1B	429.82	15.7	414.12	16.2	413.62	16.8	413.02
MW2A	430.77	17.4	413.37	17.4	413.37	16.0	414.77
MW2B	430.70	15.5	415.20	15.2	415.50	14.0	416.70
MW3	425.41	12.4	413.01	12.3	413.11	18.6	406.81
MW4	427.33	7.4	419.93	7.0	420.33	9.2	418.13
MW5	426.11	9.1	417.01	8.7	417.41	9.4	416.71
MW6A	426.82	15.9	410.92	15.1	411.72	13.3	413.52
MW6B	426.57	15.2	411.37	15.1	411.47	13.2	413.37
MW7A	422.18	21.1	401.08	21.8	400.38	19.7	402.48
MW7B	422.54	21.2	401.34	21.0	401.54	19.1	403.44
MW8A	423.70	23.3	400.40	23.4	400.30	22.6	401.10
MW8B	423.67	19.9	403.77	20.1	403.57	20.3	403.37
MW9	424.92	14.6	410.32	15.1	409.82	16.1	408.82
MW10	425.19	15.5	409.69	16.0	409.19	20.3	404.89
MW11A	426.20	11.2	415.00	11.9	414.30	11.2	415.00
MW11B	426.35	11.3	415.05	11.6	414.75	11.8	414.55
MW11C	426.23	11.2	415.03	11.6	414.63	11.1	415.13
MW12	424.03	8.4	415.63	8.0	416.03	8.2	415.83
MW13	425.98	10.7	415.28	10.9	415.08	10.9	415.08
MW14	425.92	7.6	418.32	5.4	420.52	3.1	422.82
MW15	426.63	12.0	414.63	12.2	414.43	12.9	413.73
MW16	421.15	8.1	413.05	8.0	413.15	7.7	413.45
MW17	420.52	9.2	411.32	9.0	411.52	7.5	413.02
MW18A	423.17	20.5	402.67	20.1	403.07	20.5	402.67
MW18B	423.06	10.4	412.66	10.5	412.56	9.8	413.26
MW19	424.11	10.3	413.81	10.2	413.91	10.8	413.31
MW20	423.27	8.7	414.57	8.6	414.67	8.1	415.17

1) Elevation in feet above mean sea level.

2) Depth to water in feet below measuring point.

Table 2. Water-Level Elevations in Monitoring Wells, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

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		May 22-23, 1985		June 11-12, 1985		July 16-23, 1985	
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Well Designation	Measuring Point (1) Elevation	Depth to Water (2)	Water Level Elevation	Depth to Water	Water Level Elevation	Depth to Water	Water Level Elevation

MW1A	430.07	16.9	413.17	16.2	413.87	19.2	410.87
MW1B	429.82	15.1	414.72	14.8	415.02	18.7	411.12
MW2A	430.77	16.3	414.47	16.9	413.87	18.4	412.37
MW2B	430.70	16.0	414.70	14.2	416.50	16.6	414.10
MW3	425.41	11.9	413.51	10.9	414.51	12.1	413.31
MW4	427.33	9.2	418.13	8.7	418.63	8.7	418.63
MW5	426.11	9.1	417.01	9.3	416.81	8.9	417.21
MW6A	426.82	14.0	412.82	14.1	412.72	16.4	410.42
MW6B	426.57	13.8	412.77	13.3	413.27	15.5	411.07
MW7A	422.18	19.0	403.18	19.1	403.08	29.5	392.68
MW7B	422.54	20.1	402.44	19.0	403.54	29.0	393.54
MW8A	423.70	22.7	401.00	22.0	401.70	31.9	391.80
MW8B	423.67	20.4	403.27	20.9	402.77	30.0	393.67
MW9	424.92	16.3	408.62	15.8	409.12	19.6	405.32
MW10	425.19	18.9	406.29	17.0	408.19	29.3	395.89
MW11A	426.20	11.9	414.30	11.8	414.40	11.5	414.70
MW11B	426.35	11.8	414.55	11.5	414.85	11.7	414.65
MW11C	426.23	11.7	414.53	11.0	415.23	11.5	414.73
MW12	424.03	8.0	416.03	8.1	415.93	8.4	415.63
MW13	425.98	10.8	415.18	10.5	415.48	11.2	414.78
MW14	425.92	5.4	420.52	4.3	421.62	4.8	421.12
MW15	426.63	12.7	413.93	12.5	414.13	13.8	412.83
MW16	421.15	7.6	413.55	7.6	413.55	8.8	412.35
MW17	420.52	7.5	413.02	8.0	412.52	11.3	409.22
MW18A	423.17	20.6	402.57	20.2	402.97	30.6	392.57
MW18B	423.06	9.6	413.46	9.4	413.66	10.5	412.56
MW19	424.11	10.2	413.91	10.0	414.11	10.3	413.81
MW20	423.27	8.7	414.57	8.3	414.97	8.9	414.37
=====							

1) Elevation in feet above mean sea level.

2) Depth to water in feet below measuring point.

Table 2. Water-Level Elevations in Monitoring Wells, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Designation	Measuring Point (1) Elevation	August 14, 1985		September 17, 1985		October 24-31, 1985	
		Depth to Water (2)	Water Level Elevation	Depth to Water	Water Level Elevation	Depth to Water	Water Level Elevation
MW1A	430.07	17.5	412.57	17.2	412.87	18.9	411.17
MW1B	429.82	16.9	412.92	17.0	412.82	19.8	410.02
MW2A	430.77	18.0	412.77	17.4	413.37	18.6	412.17
MW2B	430.70	16.0	414.70	15.8	414.9	17.7	413.00
MW3	425.41	12.2	413.21	11.8	413.61	12.9	412.51
MW4	427.33	8.9	418.43	8.6	418.73	8.9	418.43
MW5	426.11	8.9	417.21	8.8	417.31	12.2	413.91
MW6A	426.82	15.0	411.82	15.6	411.22	15.7	411.12
MW6B	426.57	15.5	411.07	15.6	410.97	15.0	411.57
MW7A	422.18	26.4	395.78	24.8	397.38	22.5	399.68
MW7B	422.54	27.8	394.74	26.7	395.84	22.2	400.34
MW8A	423.70	30.4	393.30	28.6	395.10	25.2	398.50
MW8B	423.67	27.8	395.87	26.2	397.47	23.2	400.47
MW9	424.92	19.5	405.42	18.4	406.52	17.1	407.82
MW10	425.19	26.6	398.59	24.3	400.89	22.4	402.79
MW11A	426.20	11.7	414.50	11.6	414.60	11.2	415.00
MW11B	426.35	11.7	414.65	11.7	414.65	11.4	414.95
MW11C	426.23	11.2	415.03	10.9	415.33	12.1	414.13
MW12	424.03	8.5	415.53	8.3	415.73	9.0	415.03
MW13	425.98	10.9	415.08	11.1	414.88	12.0	413.98
MW14	425.92	4.5	421.42	4.6	421.32	5.3	420.62
MW15	426.63	13.7	412.93	12.9	413.73	14.1	412.53
MW16	421.15	8.1	413.05	8.6	412.55	8.3	412.85
MW17	420.52	10.6	409.92	11.0	409.52	10.3	410.22
MW18A	423.17	26.9	396.27	24.2	398.97	22.8	400.37
MW18B	423.06	10.0	413.06	9.9	413.16	10.7	412.36
MW19	424.11	10.4	413.71	10.1	414.01	10.4	413.71
MW20	423.27	8.8	414.47	9.0	414.27	8.5	414.77

1) Elevation in feet above mean sea level.

2) Depth to water in feet below measuring point.

Table 2. Water-Level Elevations in Monitoring Wells, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Designation	Measuring Point (1) Elevation	November 27, 1985		December 30, 1985		February 14, 1986	
		Depth to Water (2)	Water Level Elevation	Depth to Water	Water Level Elevation	Depth to Water	Water Level Elevation
MW1A	430.07	19.5	410.57	19.6	410.47	20.1	409.97
MW1B	429.82	20.1	409.72	20.2	409.62	22.6	407.22
MW2A	430.77	19.3	411.47	19.0	411.77	19.9	410.87
MW2B	430.70	17.9	412.80	18.4	412.30	19.0	411.70
MW3	425.41	14.1	411.31	14.2	411.21	15.1	410.31
MW4	427.33	9.8	417.53	9.8	417.53	10.8	416.53
MW5	426.11	13.1	413.01	13.5	412.61	14.1	412.01
MW6A	426.82	16.2	410.62	16.0	410.82	16.9	409.92
MW6B	426.57	15.8	410.77	15.6	410.97	16.2	410.37
MW7A	422.18	23.0	399.18	23.1	399.08	24.2	397.98
MW7B	422.54	22.9	399.64	23.2	399.34	24.2	398.34
MW8A	423.70	25.9	397.80	25.8	397.90	26.9	396.80
MW8B	423.67	24.9	398.77	24.6	399.07	25.2	398.47
MW9	424.92	18.1	406.82	18.3	406.62	19.8	405.12
MW10	425.19	23.0	402.19	23.1	402.09	24.3	400.89
MW11A	426.20	11.7	414.50	11.8	414.40	13.1	413.10
MW11B	426.35	12.2	414.15	12.0	414.35	13.4	412.95
MW11C	426.23	12.9	413.33	12.1	414.13	13.5	412.73
MW12	424.03	9.0	415.03	8.9	415.13	10.2	413.83
MW13	425.98	11.8	414.18	12.1	413.88	13.5	412.48
MW14	425.92	6.0	419.92	6.0	419.92	7.4	418.52
MW15	426.63	15.1	411.53	14.8	411.83	16.0	410.63
MW16	421.15	9.4	411.75	9.2	411.95	10.4	410.75
MW17	420.52	11.1	409.42	10.8	409.72	12.0	408.52
MW18A	423.17	23.2	399.97	23.7	399.47	24.9	398.27
MW18B	423.06	11.7	411.36	11.5	411.56	12.8	410.26
MW19	424.11	10.4	413.71	10.6	413.51	11.8	412.31
MW20	423.27	9.1	414.17	9.2	414.07	10.6	412.67

1) Elevation in feet above mean sea level.

2) Depth to water in feet below measuring point.

Table 2. Water-Level Elevations in Monitoring Wells, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Designation	Measuring Point (1) Elevation	June 19, 1986		August 14, 1986		December 1, 1986	
		Depth to Water (2)	Water Level Elevation	Depth to Water	Water Level Elevation	Depth to Water	Water Level Elevation
MW1A	430.07	20.2	409.87	20.0	410.07	18.18	411.89
MW1B	429.82	22.4	407.42	22.5	407.32	18.29	411.53
MW2A	430.77	20.0	410.77	20.0	410.77	17.66	413.11
MW2B	430.70	19.1	411.60	19.1	411.60	16.29	414.41
MW3	425.41	15.0	410.41	15.1	410.31	13.43	411.98
MW4	427.33	10.8	416.53	10.7	416.63	8.60	418.73
MW5	426.11	14.2	411.91	14.2	411.91	11.28	414.83
MW6A	426.82	16.9	409.92	16.8	410.02	16.69	410.13
MW6B	426.57	16.4	410.17	16.4	410.17	14.42	412.15
MW7A	422.18	24.6	397.58	24.4	397.78	21.04	401.14
MW7B	422.54	24.2	398.34	24.2	398.34	20.70	401.84
MW8A	423.70	26.8	396.90	26.8	396.90	23.83	399.87
MW8B	423.67	25.4	398.27	25.4	398.27	23.03	400.64
MW9	424.92	20.0	404.92	19.9	405.02	18.61	406.31
MW10	425.19	24.4	400.79	24.5	400.69	23.88	401.31
MW11A	426.20	13.0	413.20	13.0	413.20	10.99	415.21
MW11B	426.35	13.5	412.85	13.3	413.05	13.26	413.09
MW11C	426.23	13.5	412.73	13.6	412.63	11.38	414.85
MW12	424.03	10.4	413.63	10.3	413.73	6.89	417.14
MW13	425.98	13.6	412.38	13.7	412.28	10.69	415.29
MW14	425.92	7.5	418.42	7.3	418.62	3.83	422.09
MW15	426.63	16.1	410.53	16.0	410.63	8.30	418.33
MW16	421.15	10.3	410.85	10.4	410.75	--	--
MW17	420.52	11.9	408.62	12.0	408.52	19.71	400.81
MW18A	423.17	25.2	397.97	25.0	398.17	22.45	400.72
MW18B	423.06	12.9	410.16	12.9	410.16	7.76	415.30
MW19	424.11	11.9	412.21	11.9	412.21	11.7	412.41
MW20	423.27	10.5	412.77	10.5	412.77	8.09	415.18
GM-1*	425.51					9.08	416.43
GM-2	425.46					8.94	416.52
GM-3	427.48					5.30	422.18
GM-4	424.28					2.05	422.23
GM-5	424.53					2.58	421.95

1) Elevation in feet above mean sea level.

2) Depth to water in feet below measuring point.

* GM series wells installed in November, 1986. Water-level measurements were only collected in December 1986.

Table 2. Water-Level Elevations in Monitoring Wells, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

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		March 18, 1987			June 24, 1987		
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Table 2. Water-Level Elevations in Monitoring Wells, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

November 17, 1987			
Well Designation	Measuring Point (1) Elevation	Depth to Water (2)	Water Level Elevation
MW1A	430.07	18.1	411.97
MW1B	429.82	18.4	411.42
MW2A	430.77	12.7	418.07
MW2B	430.70	11.0	419.70
MW3	425.41	12.8	412.61
MW4	427.33	8.6	418.73
MW5	426.11	16.9	409.21
MW6A	426.82	16.4	410.42
MW6B	426.57	16.9	409.67
MW7A	422.18	21.4	400.78
MW7B	422.54	20.0	402.54
MW8A	423.70	23.9	399.80
MW8B	423.67	18.7	404.97
MW9	424.92	20.1	404.82
MW10	425.19	17.1	408.09
MW11A	426.20	10.9	415.30
MW11B	426.35	11.7	414.65
MW11C	426.23	10.3	415.93
MW12	424.03	11.1	412.93
MW13	425.98	9.9	416.08
MW14	425.92	8.8	417.12
MW15	426.63	7.7	418.93
MW16	421.15	11.3	409.85
MW17	420.52	13.1	407.42
MW18A	423.17	17.4	405.77
MW18B	423.06	13.1	409.96
MW19	424.11	11.3	412.81
MW20	423.27	9.1	414.17

- 1) Elevation in feet above mean sea level.
 2) Depth to water in feet below measuring point.

Table 3. Summary of Volatile Organic Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Designation: Date:	MW1A 4/84	MW1A 8/84	MW1A 10/84	MW1A 1/85	MW1A 4/85	MW1A 7/85	MW1A 10/85	MW1B 4/84	MW1B 8/84	MW1B 10/84
USEPA Priority Pollutant Volatile Organic Compounds (Concentrations are in ug/L)										
Acrolein	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis (chloromethyl) ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND	<6.0	ND	ND	ND
Chlorodibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	14	ND	ND	ND	ND	ND	ND
Dichlorobromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl bromide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	21	ND	9	19	ND	ND	<2.8	20	56	9
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1	3	ND	ND	ND	ND	<6.0	ND	ND	0.4
1,2-trans-Dichloroethylene	ND	ND	0.4	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total VOCs Analyzed	23	3	9.4	33	0	0	0	20	56	9.4

ND Not Detected.

* Replicate Sample.

Table 3. Summary of Volatile Organic Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Designation:	MW1B	MW1B	MW1B	MW1B	MW2A	MW2A	MW2A	MW2A	MW2A	MW2A
Date:	1/85	4/85	7/85	10/85	4/84	8/84	10/84	1/85	4/85	7/85
USEPA Priority Pollutant										
Volatile Organic Compounds										
(Concentrations are in ug/L)										
Acrolein	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	2	ND	ND	ND	ND
Bis (chloromethyl) ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	61	ND	ND	ND	ND
Chlorodibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	0.4	ND	ND	ND
Dichlorobromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl bromide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	20	ND	8.22	11.6	52	13	14	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	ND	ND	ND	ND	ND	ND	0.8	ND	ND	ND
Toluene	ND	ND	ND	ND	2	2	0.5	ND	ND	ND
1,2-trans-Dichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total VOCs Analyzed	20	0	8.2	11.6	54	78	15.7	0	0	0

ND Not Detected.

* Replicate Sample.

Table 3. Summary of Volatile Organic Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Designation:	MW2A	MW2A	MW2B	MW2B	MW2B	MW2B	MW2B	MW2B	MW2B	MW3
Date:	10/85	12/86	4/84	8/84	10/84	1/85	4/85	7/85	10/85	4/84
USEPA Priority Pollutant										
Volatile Organic Compounds										
(Concentrations are in ug/L)										
Acrolein	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Bis (chloromethyl) ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	184
Chlorodibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorobromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
cis-1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	3
Methyl bromide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	<2.8	10.9	40	6	6	32	ND	ND	7.54	17
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	3
Tetrachloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Toluene	ND	ND	ND	ND	0.5	ND	ND	ND	ND	3
1,2-trans-Dichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	481
1,1,1-Trichloroethane	ND	ND	1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Trichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	7
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	56
Total VOCs Analyzed	0	10.9	41	6	6.5	32.0	0	0	7.5	762

ND Not Detected.

* Replicate Sample.

Table 3. Summary of Volatile Organic Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Designation:	MW3	MW3	MW3	MW3	MW3	MW3	MW4	MW4	MW4	MW4
Date:	8/84	10/84	1/85	4/85	7/85	10/85	4/84	8/84	10/84	1/85
USEPA Priority Pollutant										
Volatile Organic Compounds										
(Concentrations are in ug/L)										
Acrolein	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	8	7	12	18	<44	ND	6	9	ND	ND
Bis (chloromethyl) ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	86	2,300	4,270.6	3,180	7,380	41,400	471	1	753
Chlorodibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	12	ND	ND	ND
Dichlorobromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	17	8	ND
1,1-Dichloroethylene	ND	18	ND	28.9	<28	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	<72	ND	2	ND	ND	ND
Methyl bromide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	4	7	25	ND	74.0	15,600	43	2	6	30
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	3	10	69	194.9	146	ND	1	ND	ND	ND
Toluene	2	0.6	ND	ND	<60	ND	2	21	0.4	ND
1,2-trans-Dichloroethylene	ND	4,660	5,760	7,694.6	7,120	7,840	3	ND	ND	ND
1,1,1-Trichloroethane	ND	NA	ND	ND	<38	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	ND	ND	ND	ND	3,550	6,620	ND	ND	1	ND
Trichlorofluoromethane	1,240	1,025	1,680	4,379	ND	ND	ND	ND	ND	ND
Vinyl chloride	594	662	401	1,128	1,050	<2,500	ND	ND	ND	ND
Total VOCs Analyzed	1,851	6,475.6	10,247	17,714	15,120	37,440	41,469	520	16.4	783

ND Not Detected.

* Replicate Sample.

Table 3. Summary of Volatile Organic Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Designation:	MW4	MW4	MW4	MW4	MW4	MW5	MW5	MW5	MW5	MW5
Date:	4/85	7/85	10/85	10/85*	12/86	4/84	8/84	10/84	1/85	4/85
USEPA Priority Pollutant										
Volatile Organic Compounds										
(Concentrations are in ug/L)										
Acrolein	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	14.5	ND	ND	ND	<44	ND	ND	ND	ND	ND
Bis (chloromethyl) ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	7,943.8	7,070	4,220	4,170	2,680	259	ND	ND	ND	ND
Chlorodibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorobromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	9.2	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	1	ND	ND	ND	ND
Methyl bromide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	2.8	ND	762	ND	ND	13	2	7	53	9
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	1	ND	0.6	ND	ND
1,2-trans-Dichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	2	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total VOCs Analyzed	7,970.3	7,070	4,982	4,170	2,680	276	2	7.6	53	9

ND Not Detected.

* Replicate Sample.

Table 3. Summary of Volatile Organic Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Designation:	MW5	MW5	MW5	MW6A	MW6A	MW6A	MW6A	MW6A	MW6A	MW6A
Date:	7/85	10/85	12/86	4/84	8/84	10/84	1/85	4/85	7/85	10/85
USEPA Priority Pollutant										
Volatile Organic Compounds										
(Concentrations are in ug/L)										
Acrolein	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	449	272	99	ND	176.3	ND	218
Bis (chloromethyl) ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	<6.0	42,900	186	1,678	ND	36,580	28,900	53,700
Chlorodibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	1,040	ND	ND	4	ND	ND	ND
Dichlorobromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	<4.7	ND	4	ND	6.4	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	3.7	ND	ND	ND
1,1-Dichloroethylene	ND	ND	ND	ND	ND	ND	494	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	26	ND	ND	54.6	ND	82.6
Methyl bromide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	9.10	ND	<2.8	36,800	26	8	ND	18.4	24,600	29.4
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	<6.0	ND	27,700	81	NA	ND	14,780	41,100	10,300
1,2-trans-Dichloroethylene	ND	<1.6	ND	ND	5	175	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	1,090	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	ND	ND	ND	ND	ND	ND	3.5	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	6	119	ND	ND	ND	ND
Total VOCs Analyzed	9.1	0	0	109,979	606	2,079	511.6	51,609.3	94,600	64,330

ND Not Detected.

* Replicate Sample.

Table 3. Summary of Volatile Organic Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Designation:	MW6A	MW6B	MW6B	MW6B	MW6B	MW7A	MW7A	MW7A	MW7A	MW7A
Date:	10/85*	1/85	4/85	7/85	10/85	4/84	8/84	10/84	1/85	4/85
USEPA Priority Pollutant										
Volatile Organic Compounds										
(Concentrations are in ug/L)										
Acrolein	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	202	ND	8.4	8.12	ND	29	80	53	19	58.3
Bis (chloromethyl) ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	45,200	1,120	1,627.6	1,620	1,740	257	1,038	800	558	1,185.9
Chlorodibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	8	2	ND	ND	ND
Dichlorobromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	15	39	19	13	44
1,1-Dichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	74.6	ND	<7.2	<7.2	ND	2	9	9	ND	8.4
Methyl bromide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	<28	ND	ND	ND	<28	19	116	5	18	16.6
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	ND	ND	ND	ND	ND	2	6	4	ND	6.5
Toluene	7,890	ND	ND	<6.0	ND	ND	7	5	ND	6.5
1,2-trans-Dichloroethylene	ND	ND	<1.6	ND	ND	23	22	14	ND	15
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	2	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	3	ND	ND	ND	ND
Trichloroethylene	ND	ND	ND	ND	ND	2	4	2	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	152	302	68	24	125.3
Total VOCs Analyzed	53,366.6	1,120	1,636	1,628.1	1,740	514	1,625	979	632	1,466.5

ND Not Detected.

* Replicate Sample.

Table 3. Summary of Volatile Organic Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Designation:	MW7A	MW7A	MW7A	MW7B	MW7B	MW7B	MW7B	MW7B	MW7B	MW7B
Date:	7/85	10/85	12/86	4/84	8/84	10/84	1/85	4/85	7/85	10/85
USEPA Priority Pollutant										
Volatile Organic Compounds										
(Concentrations are in ug/L)										
Acrolein	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	52.9	151	<88	6	14	5	ND	4.9	ND	ND
Bis (chloromethyl) ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	1,590	1,710	1,240	ND	363	239	251	157.2	85.8	244
Chlorodibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	41	408	825	455	388.9	110	812
Dichlorobromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	<140	ND	ND	ND	ND	ND	<7.2	ND
Methyl bromide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	110	ND	ND	19	55	8	ND	ND	19.8	68.0
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	64.1	ND	<120	1	19	ND	ND	ND	ND	ND
1,2-trans-Dichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	1	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	<100	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total VOCs Analyzed	1,817	1,861	1,240	68	859	1,077	706	551	215.6	1,124.0

ND Not Detected.

* Replicate Sample.

Table 3. Summary of Volatile Organic Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Designation:	MW7B	MW8A	MW8A	MW8A	MW8A	MW8A	MW8A	MW8A	MW8A	MW8A
Date:	12/86	4/84	8/84	10/84	1/85	4/85	7/85	10/85	12/86	12/86*
USEPA Priority Pollutant										
Volatile Organic Compounds										
(Concentrations are in ug/L)										
Acrolein	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	<4.4	106	224	106	ND	173.7	ND	148	ND	ND
Bis (chloromethyl) ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	<44
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	78.3	15,150	183	1,925	10,400	16,079.4	38,300	8,820	1,100	2,470
Chlorodibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	193	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorobromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropylene	ND	11 (a)	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	10	b)	ND	ND	ND	ND	ND	ND
Methyl bromide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	29.3	18	3	8	356	54	ND	ND	ND	96.2
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	2	2	b)	ND	ND	ND	ND	ND	ND
1,2-trans-Dichloroethylene	ND	17	18	12	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	79	6	ND	135.1	ND	ND	ND	ND
Total VOCs Analyzed	300.6	15,304	520	2,057	10,756	16,442.2	38,300	8,968	1,100	2,566.2

ND Not Detected.

* Replicate Sample.

Table 3. Summary of Volatile Organic Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Designation:	MW88	MW88	MW88	MW88	MW88	MW88	MW88	MW88	MW9	MW9
Date:	4/84	8/84	10/84	1/85	4/85	7/85	10/85	12/86	4/84	8/84
USEPA Priority Pollutant										
Volatile Organic Compounds										
(Concentrations are in ug/L)										
Acrolein	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis (chloromethyl) ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	1	48	ND	ND	ND	ND	ND	ND	ND	27
Chlorodibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorobromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl bromide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	37	2	5	15	ND	11.2	<2.8	<2.8	41	1
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	1	ND
1,2-trans-Dichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	1	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total VOCs Analyzed	38	50	5	15	0	11.2	0	0	43	28

ND Not Detected.

* Replicate Sample.

Table 3. Summary of Volatile Organic Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Designation:	MW9	MW9	MW9	MW9	MW9	MW9	MW10	MW10	MW10	MW10
Date:	10/84	1/85	4/85	7/85	10/85	12/86	4/84	8/84	10/84	1/85
USEPA Priority Pollutant										
Volatile Organic Compounds										
(Concentrations are in ug/L)										
Acrolein	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis (chloromethyl) ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	23.4	ND	ND	22	ND	ND
Chlorodibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	2	ND	ND	ND
2-Chloroethylvinyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorobromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl bromide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	6	16	ND	ND	10.9	ND	60	9	6	46
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	<6.0	ND	1	ND	0.7	ND
1,2-trans-Dichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	<10.0	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total VOCs Analyzed	6	16	0	0	34.3	0	63	31	6.7	46

ND Not Detected.

* Replicate Sample.

Table 3. Summary of Volatile Organic Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Designation:	MW10	MW10	MW10	MW10	MW11A	MW11A	MW11A	MW11A	MW11A	MW11A
Date:	4/85	7/85	10/85	12/86	4/84	8/84	10/84	1/85	4/85	7/85
USEPA Priority Pollutant										
Volatile Organic Compounds										
(Concentrations are in ug/L)										
Acrolein	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis (chloromethyl) ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	41	ND	ND	ND	ND
Chlorodibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorobromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl bromide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	22.8	15.0	<2.8	12.6	ND	2	5	10	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	1	0.4	ND	ND	ND
1,2-trans-Dichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total VOCs Analyzed	22.8	15	0	12.6	0	44	5.4	10	0	0

ND Not Detected.

* Replicate Sample.

Table 3. Summary of Volatile Organic Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Designation:	MW11A	MW11A	MW11B	MW11B	MW11B	MW11B	MW11B	MW11B	MW11B	MW11B
Date:	10/85	12/86	4/84	8/84	10/84	1/85	4/85	7/85	10/85	12/86
USEPA Priority Pollutant										
Volatile Organic Compounds										
(Concentrations are in ug/L)										
Acrolein	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis (chloromethyl) ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	4	1	ND	ND	ND	ND	ND
Chlorodibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorobromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl bromide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	54.4	2.98	ND	4	5	49	ND	ND	3.39	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	1	ND	ND	ND	ND	ND
1,2-trans-Dichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total VOCs Analyzed	54.4	3	0	8	7	49	0	0	3.4	0

ND Not Detected.

* Replicate Sample.

Table 3. Summary of Volatile Organic Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Designation:	MW11C	MW11C	MW11C	MW11C	MW11C	MW12	MW12	MW12	MW12	MW12
Date:	1/85	4/85	7/85	10/85	12/86	1/85	4/85	7/85	10/85	12/86
USEPA Priority Pollutant										
Volatile Organic Compounds										
(Concentrations are in ug/L)										
Acrolein	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis (chloromethyl) ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	<6.0	ND	ND	ND	ND	ND
Chlorodibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorobromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	ND	ND	ND	ND	ND	29	18.2	<10.0	ND	23.3
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl bromide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	ND	ND	ND	ND	ND	12	8.8	<2.8	22.8	13.3
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-trans-Dichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total VOCs Analyzed	0	0	0	0	0	41	27	0	22.8	36.6

ND Not Detected.

* Replicate Sample.

Table 3. Summary of Volatile Organic Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Designation:	MW13	MW13	MW13	MW13	MW13	MW14	MW14	MW14	MW14	MW14
Date:	1/85	4/85	7/85	10/85	12/86	1/85	4/85	7/85	10/85	12/86
USEPA Priority Pollutant										
Volatile Organic Compounds										
(Concentrations are in ug/L)										
Acrolein	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	ND	5.7	ND	<4.4	<22	ND	ND	ND	ND	ND
Bis (chloromethyl) ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	33	1,640	1,295	342	1,140	48,000	140,544	132,000	163,000	110,000
Chlorodibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorobromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	343	ND	ND	ND	ND
1,1-Dichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl bromide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	ND	ND	ND	ND	ND	ND	780	ND	<2,800	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-trans-Dichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total VOCs Analyzed	33	1,645.7	1,295	342	1,140	48,343	141,324	132,000	163,000	110,000

ND Not Detected.

* Replicate Sample.

Table 3. Summary of Volatile Organic Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Designation:	MW15	MW15	MW15	MW15	MW15	MW16	MW16	MW16	MW16	MW17
Date:	1/85	4/85	7/85	10/85	12/86	1/85	4/85	7/85	10/85	1/85
USEPA Priority Pollutant										
Volatile Organic Compounds										
(Concentrations are in ug/L)										
Acrolein	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis (chloromethyl) ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	21	22.6	ND	ND	ND	31	46.8	46.7	38.2	11
Chlorodibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorobromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl bromide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	20	ND	<2.8	9.20	5.13	ND	<2.8	ND	20.2	19
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	19.4	ND
1,2-trans-Dichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	40.9	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total VOCs Analyzed	41	22.6	0	9.2	5.1	31	46.8	46.7	118.7	30

ND Not Detected.

* Replicate Sample.

Table 3. Summary of Volatile Organic Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Designation:	MW17	MW17	MW17	MW18A	MW18A	MW18A	MW18A	MW18A	MW18B	MW18B
Date:	4/85	7/85	10/85	1/85	4/85	7/85	10/85	12/86	1/85	4/85
USEPA Priority Pollutant										
Volatile Organic Compounds										
(Concentrations are in ug/L)										
Acrolein	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	6.2	<440	121	13.7	ND	ND
Bis (chloromethyl) ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	11.6	<6.0	ND	63	126.5	5,380	1,750	193	ND	ND
Chlorodibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorobromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	<720	ND	ND	ND	ND
Methyl bromide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	ND	4.8	ND	ND	ND	1,680	195	7.97	ND	6
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	<600	<60	<6.0	ND	ND
1,2-trans-Dichloroethylene	2.0	ND	ND	ND	15.2	ND	ND	<1.6	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	ND	ND	ND	ND	15.6	ND	ND	ND	ND	1.9
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total VOCs Analyzed	13.6	4.8	0	63	163.5	7,060	2,066	214.7	0	7.9

ND Not Detected.

* Replicate Sample.

Table 3. Summary of Volatile Organic Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Designation:	MW188	MW188	MW188	MW19	MW19	MW19	MW19	MW19	MW20	MW20
Date:	7/85	10/85	12/86	1/85	4/85	7/85	10/85	12/86	1/85	4/85
USEPA Priority Pollutant										
Volatile Organic Compounds										
(Concentrations are in ug/L)										
Acrolein	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	ND	<4.4	ND	24	60.3	ND	67.0	ND	ND	ND
Bis (chloromethyl) ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	15,800	36,460	ND	43,700	ND	ND	ND
Chlorodibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorobromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	5.8	ND	ND	<4.7	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	4.6	ND	ND	ND	ND	ND
1,1-Dichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl bromide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	12.4	6.45	ND	ND	7	447	3.80	6.14	ND	4.4
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	31	51.6	<6.0	25.3	ND	ND	ND
1,2-trans-Dichloroethylene	ND	ND	ND	17	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	ND	ND	ND	ND	<1.9	ND	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND	<10.0	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	99	97.9	ND	46.4	ND	ND	ND
Total VOCs Analyzed	12.4	6.5	0	15,971	36,687.2	447	43,842.5	6.1	0	4.4
ND Not Detected.										
* Replicate Sample.										

Table 3. Summary of Volatile Organic Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

=====										
Well Designation:	MW20	MW20	MW20	FIELD			FIELD			
Date:	7/85	10/85	12/86	BLANK	XFB1	XFB1	BLANK	XFB2	XFB2	BLANK
				7/85	10/85	12/86	7/85	10/85	12/86	10/84
USEPA Priority Pollutant										
Volatile Organic Compounds										
(Concentrations are in ug/L)										

Acrolein	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis (chloromethyl) ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	<6.0	ND	ND	ND	ND	ND	ND	ND	ND
Chlorodibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	1.6	ND	ND	ND	ND	ND	ND
Dichlorobromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl bromide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	7.74	ND	20.8	5.8	ND	4.14	ND	<2.8	8.32	20
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	<6.0	ND	ND	ND	ND	ND	1
1,2-trans-Dichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	<10.0	ND	ND	ND	ND	ND	ND

Total VOCs Analyzed	7.7	0	20.8	7.4	0	4.1	0	0	8.3	21

ND Not Detected.

* Replicate Sample.

Table 3. Summary of Volatile Organic Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

=====							
Well Designation:	BLANK	LAB	LAB	LAB	METHOD	JAR	JAR
Date:	10/84	10/84	10/84	10/84	1/85	1/85	4/85
USEPA Priority Pollutant							
Volatile Organic Compounds							
(Concentrations are in ug/L)							

Acrolein	ND	ND	ND	ND	ND	ND	ND
Acrylonitrile	ND	ND	ND	ND	ND	ND	ND
Benzene	0.5	ND	ND	ND	ND	ND	ND
Bis (chloromethyl) ether	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND
Chlorodibromomethane	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	ND	ND	ND	ND	ND	ND	ND
Chloroform	0.4	ND	ND	ND	ND	ND	ND
Dichlorobromomethane	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND
Methyl bromide	ND	ND	ND	ND	ND	ND	ND
Methyl chloride	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	12	38	28	28	14	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	ND	ND	ND	ND	ND	ND	ND
Toluene	1	0.7	0.6	1	ND	ND	ND
1,2-trans-Dichloroethylene	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND

Total VOCs Analyzed	13.9	38.7	28.6	29	14	0	0

=====

ND Not Detected.

* Replicate Sample.

Table 4. Summary of Acid Extractable Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Designation:	MW1A	MW1A	MW1A	MW1A	MW1A	MW1A	MW1A	MW1B
Date:	4/84	8/84	10/84	1/85	4/85	7/85	10/85	4/84
USEPA Priority Pollutant								
Acid Extractable								
Organic Compounds								
(Concentrations are in ug/L)								
2-Chlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-o-cresol	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
p-Chloro-m-cresol	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
Total Acid Compounds Analyzed	0	0	0	0	0	0	0	0
ND Not Detected.								
* Replicate Sample.								

Table 4. Summary of Acid Extractable Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

=====								
Well Designation:	MW1B	MW1B	MW1B	MW1B	MW1B	MW1B	MW2A	MW2A
Date:	8/84	10/84	1/85	4/85	7/85	10/85	4/84	8/84
USEPA Priority Pollutant								
Acid Extractable								
Organic Compounds								
(Concentrations are in ug/L)								

2-Chlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-o-cresol	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
p-Chloro-m-cresol	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND

Total Acid Compounds Analyzed	0	0	0	0	0	0	0	0
=====								
ND Not Detected.								
* Replicate Sample.								

Table 4. Summary of Acid Extractable Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Designation:	MW2A	MW2A	MW2A	MW2A	MW2A	MW2A	MW2B	MW2B
Date:	10/84	1/85	4/85	7/85	10/85	12/86	4/84	8/84
USEPA Priority Pollutant								
Acid Extractable								
Organic Compounds								
(Concentrations are in ug/L)								
2-Chlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-o-cresol	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
p-Chloro-m-cresol	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	ND	ND	ND	ND	14.8	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
Total Acid Compounds Analyzed	0	0	0	0	14.8	0	0	0

ND Not Detected.

* Replicate Sample.

Table 4. Summary of Acid Extractable Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Designation:	MW2B	MW2B	MW2B	MW2B	MW2B	MW2B	MW3	MW3
Date:	10/84	1/85	4/85	7/85	10/85	12/86	4/84	8/84
USEPA Priority Pollutant								
Acid Extractable								
Organic Compounds								
(Concentrations are in ug/L)								
2-Chlorophenol	ND	ND	ND	ND	ND	ND	13	5
2,4-Dichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-o-cresol	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
p-Chloro-m-cresol	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
Total Acid Compounds Analyzed	0	0	0	0	0	0	13	5

ND Not Detected.

* Replicate Sample.

Table 4. Summary of Acid Extractable Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Designation:	MW3	MW3	MW3	MW3	MW3	MW4	MW4	MW4
Date:	10/84	1/85	4/85	7/85	10/85	4/84	8/84	10/84
USEPA Priority Pollutant								
Acid Extractable								
Organic Compounds								
(Concentrations are in ug/L)								
2-Chlorophenol	ND	ND	<3.3	8.21	19.3	ND	ND	2
2,4-Dichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-o-cresol	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
p-Chloro-m-cresol	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
Total Acid Compounds Analyzed	0	0	0	8.2	19.3	0	0	2
ND Not Detected.								
* Replicate Sample.								

Table 4. Summary of Acid Extractable Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Designation:	MW4	MW4	MW4	MW4	MW4R	MW5	MW5	MW5
Date:	1/85	4/85	7/85	10/85	10/85	4/84	8/84	10/84
USEPA Priority Pollutant								
Acid Extractable								
Organic Compounds								
(Concentrations are in ug/L)								
2-Chlorophenol	ND	32	34.0	ND	11.4	ND	ND	ND
2,4-Dichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-o-cresol	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
p-Chloro-m-cresol	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
Total Acid Compounds Analyzed	0	32	34	0	11.4	0	0	0

ND Not Detected.

* Replicate Sample.

Table 4. Summary of Acid Extractable Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Designation:	MW5	MW5	MW5	MW5	MW6A	MW6A	MW6A	MW6A
Date:	1/85	4/85	7/85	10/85	4/84	8/84	10/84	1/85
USEPA Priority Pollutant								
Acid Extractable								
Organic Compounds								
(Concentrations are in ug/L)								
2-Chlorophenol	ND	ND	ND	ND	19	ND	9	39
2,4-Dichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-o-cresol	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
p-Chloro-m-cresol	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	ND	ND	ND	ND	ND	ND	30	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
Total Acid Compounds Analyzed	0	0	0	0	19	0	39	39
ND Not Detected.								
* Replicate Sample.								

Table 4. Summary of Acid Extractable Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Designation:	MW6A	MW6A	MW6A	MW6A	MW6B	MW6B	MW6B	MW6B
Date:	4/85	7/85	10/85	10/85*	1/85	4/85	7/85	10/85
USEPA Priority Pollutant								
Acid Extractable								
Organic Compounds								
(Concentrations are in ug/L)								
2-Chlorophenol	17	35.9	55.4	20.1	ND	ND	ND	ND
2,4-Dichlorophenol	ND	ND	ND	ND	ND	<2.7	ND	ND
2,4-Dimethylphenol	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-o-cresol	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	ND	ND	ND	ND	ND	ND	<42.4	ND
2-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
p-Chloro-m-cresol	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	13	31.3	2.83	3.00	6.1	8.5	<1.5	134
2,4,6-Trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
Total Acid Compounds Analyzed	30	67.2	58.2	23.1	6.1	8.5	0	134

ND Not Detected.

* Replicate Sample.

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Table 4. Summary of Acid Extractable Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Designation:	MW7B	MW7B	MW7B	MW7B	MW7B	MW7B	MW7B	MW7B
Date:	4/84	8/84	10/84	1/85	4/85	7/85	10/85	12/86
USEPA Priority Pollutant								
Acid Extractable								
Organic Compounds								
(Concentrations are in ug/L)								
2-Chlorophenol	ND	2	103	21.9	25.8	16.3	56.3	ND
2,4-Dichlorophenol	ND	ND	76	264	46.5	125	ND	19.8
2,4-Dimethylphenol	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-o-cresol	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	ND	ND	11	ND	ND	389	9.7	ND
2-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
p-Chloro-m-cresol	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
Total Acid Compounds Analyzed	0	2	190	285.9	72.3	530.3	66	19.8

ND Not Detected.

* Replicate Sample.

Table 4. Summary of Acid Extractable Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Designation:	MW8A	MW8A	MW8A	MW8A	MW8A	MW8A	MW8A	MW8A
Date:	4/84	8/84	10/84	1/85	4/85	7/85	10/85	12/86
USEPA Priority Pollutant								
Acid Extractable								
Organic Compounds								
(Concentrations are in ug/L)								
2-Chlorophenol	93	9	24	8	17.3	27.3	39.5	<3.3
2,4-Dichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-o-cresol	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
p-Chloro-m-cresol	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	ND	ND	ND	4	ND	10.4	10.7	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
Total Acid Compounds Analyzed	93	9	24	12	17.3	37.7	50.2	0

ND Not Detected.

* Replicate Sample.

Table 4. Summary of Acid Extractable Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Designation:	MW8A	MW8B	MW8B	MW8B	MW8B	MW8B	MW8B	MW8B
Date:	12/86*	4/84	8/84	10/84	1/85	4/85	7/85	10/85
USEPA Priority Pollutant								
Acid Extractable								
Organic Compounds								
(Concentrations are in ug/L)								
2-Chlorophenol	3.72	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-o-cresol	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
p-Chloro-m-cresol	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	ND	ND	ND	ND	ND	ND	ND	7.83
2,4,6-Trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
Total Acid Compounds Analyzed	3.7	0	0	0	0	0	0	7.8

ND Not Detected.

* Replicate Sample.

Table 4. Summary of Acid Extractable Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Designation:	MW88	MW9	MW9	MW9	MW9	MW9	MW9	MW9
Date:	12/86	4/84	8/84	10/84	1/85	4/85	7/85	10/85
USEPA Priority Pollutant								
Acid Extractable								
Organic Compounds								
(Concentrations are in ug/L)								
2-Chlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-o-cresol	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
p-Chloro-m-cresol	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
Total Acid Compounds Analyzed	0	0	0	0	0	0	0	0

ND Not Detected.

* Replicate Sample.

Table 4. Summary of Acid Extractable Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Designation:	MW9	MW10	MW10	MW10	MW10	MW10	MW10	MW10
Date:	12/86	4/84	8/84	10/84	1/85	4/85	7/85	10/85
USEPA Priority Pollutant								
Acid Extractable								
Organic Compounds								
(Concentrations are in ug/L)								
2-Chlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-o-cresol	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
p-Chloro-m-cresol	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	2	ND	ND	ND	ND
Phenol	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
Total Acid Compounds Analyzed	0	0	0	2	0	0	0	0
ND Not Detected.								
* Replicate Sample.								

Table 4. Summary of Acid Extractable Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

=====								
Well Designation:	MW11A	MW11A	MW11A	MW11A	MW11A	MW11A	MW11A	MW11B
Date:	4/84	8/84	10/84	1/85	4/85	7/85	10/85	4/84
USEPA Priority Pollutant								
Acid Extractable								
Organic Compounds								
(Concentrations are in ug/L)								

2-Chlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-o-cresol	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
p-Chloro-m-cresol	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	5	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND

Total Acid Compounds Analyzed	5	0	0	0	0	0	0	0
=====								
ND Not Detected.								
* Replicate Sample.								

Table 4. Summary of Acid Extractable Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Designation:	MW11B	MW11B	MW11B	MW11B	MW11B	MW11B	MW11C	MW11C
Date:	8/84	10/84	1/85	4/85	7/85	10/85	1/85	4/85
USEPA Priority Pollutant								
Acid Extractable								
Organic Compounds								
(Concentrations are in ug/L)								
2-Chlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-o-cresol	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
p-Chloro-m-cresol	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	ND	1	ND	ND	ND	ND	ND	ND
Phenol	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
Total Acid Compounds Analyzed	0	1	0	0	0	0	0	0
ND Not Detected.								
* Replicate Sample.								

Table 4. Summary of Acid Extractable Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

=====								
Well Designation:	MW11C	MW11C	MW12	MW12	MW12	MW12	MW13	MW13
Date:	7/85	10/85	1/85	4/85	7/85	10/85	1/85	4/85
USEPA Priority Pollutant								
Acid Extractable								
Organic Compounds								
(Concentrations are in ug/L)								

2-Chlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-o-cresol	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
p-Chloro-m-cresol	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND

Total Acid Compounds Analyzed	0	0	0	0	0	0	0	0
=====								
ND Not Detected.								
* Replicate Sample.								

Table 4. Summary of Acid Extractable Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

=====								
Well Designation:	MW13	MW13	MW14	MW14	MW14	MW14	MW15	MW15
Date:	7/85	10/85	1/85	4/85	7/85	10/85	1/85	4/85
USEPA Priority Pollutant								
Acid Extractable								
Organic Compounds								
(Concentrations are in ug/L)								

2-Chlorophenol	<3.3	ND	74	43.3	52.0	88.7	ND	ND
2,4-Dichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-o-cresol	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
p-Chloro-m-cresol	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	ND	ND	ND	9.1	8.04	7.43	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND

Total Acid Compounds Analyzed	0	0	74	52.4	60	96.1	0	0

=====

ND Not Detected.

* Replicate Sample.

Table 4. Summary of Acid Extractable Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Designation:	MW15	MW15	MW16	MW16	MW16	MW16	MW17	MW17
Date:	7/85	12/86	1/85	4/85	7/85	10/85	1/85	4/85
USEPA Priority Pollutant								
Acid Extractable								
Organic Compounds								
(Concentrations are in ug/L)								
2-Chlorophenol	9.12	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-o-cresol	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
p-Chloro-m-cresol	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	ND	2.87	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
Total Acid Compounds Analyzed	9.1	2.9	0	0	0	0	0	0
ND Not Detected.								
* Replicate Sample.								

Table 4. Summary of Acid Extractable Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Designation:	MW17	MW17	MW18A	MW18A	MW18A	MW18A	MW18A	MW18B
Date:	7/85	10/85	1/85	4/85	7/85	10/85	12/86	1/85
USEPA Priority Pollutant								
Acid Extractable								
Organic Compounds								
(Concentrations are in ug/L)								
2-Chlorophenol	ND	ND	ND	ND	7.34	ND	ND	ND
2,4-Dichlorophenol	ND	ND	ND	ND	3.31	ND	ND	ND
2,4-Dimethylphenol	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-o-cresol	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
p-Chloro-m-cresol	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND	76.2	ND	ND	ND
Phenol	ND	ND	4	10	126	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
Total Acid Compounds Analyzed	0	0	4	10	212.9	0	0	0

ND Not Detected.

* Replicate Sample.

Table 4. Summary of Acid Extractable Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Designation:	MW188	MW188	MW188	MW188	MW19	MW19	MW19	MW19
Date:	4/85	7/85	10/85	12/86	1/85	4/85	7/85	10/85
USEPA Priority Pollutant								
Acid Extractable								
Organic Compounds								
(Concentrations are in ug/L)								
2-Chlorophenol	ND	<3.9	ND	ND	81	166	84.1	83.1
2,4-Dichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-o-cresol	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
p-Chloro-m-cresol	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	ND	ND	ND	1.66	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
Total Acid Compounds Analyzed	0	0	0	1.7	81	166	84.1	83.1
ND Not Detected.								
* Replicate Sample.								

Table 4. Summary of Acid Extractable Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

=====								
Well Designation:	MW19	MW20	MW20	MW20	MW20	MW20	XFB1	XFB1
Date:	12/86	1/85	4/85	7/85	10/85	12/86	10/85	12/86
USEPA Priority Pollutant								
Acid Extractable								
Organic Compounds								
(Concentrations are in ug/L)								

2-Chlorophenol	14.7	ND	ND	ND	ND	<3.5	ND	7.09
2,4-Dichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-o-cresol	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
p-Chloro-m-cresol	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND

Total Acid Compounds Analyzed	14.7	0	0	0	0	0	0	7.1
=====								
ND Not Detected.								
* Replicate Sample.								

Table 4. Summary of Acid Extractable Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

=====								
Well Designation:	XFB2	BLANK	BLANK	LAB BLANK	LAB BLANK	METHOD BLANK	JAR BLANK	JAR BLANK
Date:	10/85	10/84	10/84	10/84	10/84	1/85	1/85	4/85
USEPA Priority Pollutant								
Acid Extractable								
Organic Compounds								
(Concentrations are in ug/L)								

2-Chlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-o-cresol	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND
p-Chloro-m-cresol	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND

Total Acid Compounds Analyzed	0	0	0	0	0	0	0	0
=====								
ND Not Detected.								
* Replicate Sample.								

Table 5. Summary of Base/Neutral Extractable Compounds in Ground Water, Monsanto Company, J.F. Queeny Plant, St. Louis, Missouri.

Well Designation: Date:	MW1A 4/84	MW1A 8/84	MW1A 10/84	MW1A 1/85	MW1A 4/85	MW1A 7/85	MW1A 10/85
USEPA Priority Pollutant							
Base/Neutral Extractable							
Organic Compounds							
(Concentrations are in ug/L)							
Acenaphthene	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND
Anthracene	ND	ND	ND	ND	ND	ND	ND
Benzidine	ND	ND	ND	ND	ND	ND	ND
Benzo (a) anthracene	ND	ND	ND	ND	ND	ND	ND
Benzo (a) pyrene	ND	ND	ND	ND	ND	ND	ND
Benzo (b) fluoroanthene	ND	ND	ND	ND	ND	ND	ND
Benzo (ghi) perylene	ND	ND	ND	ND	ND	ND	ND
Benzo (k) fluoranthene	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroethoxy) methane	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroethyl) ether	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroisopropyl) ether	ND	ND	ND	ND	ND	ND	ND
Bis (2-ethylhexyl) phthalate	ND	ND	1	76	ND	14.0	<10
4-Bromophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND
Chrysene	ND	ND	ND	ND	ND	ND	ND
Dibenzo (a,h) anthracene	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND
3,3-Dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	4	ND	ND	ND	ND	<10	ND
Dimethyl phthalate	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	2	1	1	16	ND	ND	<10
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	ND	ND	ND	12	ND	ND	ND
1,2-Diphenylhydrazine	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	ND	ND	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND
Indeno (1,2,3-c,d) pyrene	ND	ND	ND	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodimethylamine	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodi-n-propylamine	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ND	ND	ND	ND	ND	ND	ND
Pyrene	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND
Total Base/Neutral Compounds Analyzed	6	1	2	104	0	14	0

* - Replicate Sample.

ND - Not Detected.

Table 5. Summary of Base/Neutral Extractable Compounds in Ground Water, Monsanto Company, J.F. Queeny Plant, St. Louis, Missouri.

Well Designation: Date:	MW1B 4/84	MW1B 8/84	MW1B 10/84	MW1B 1/85	MW1B 4/85	MW1B 7/85	MW1B 10/85
USEPA Priority Pollutant Base/Neutral Extractable Organic Compounds (Concentrations are in ug/L)							
Acenaphthene	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND
Anthracene	ND	ND	ND	ND	ND	ND	ND
Benzidine	ND	ND	ND	ND	ND	ND	ND
Benzo (a) anthracene	ND	ND	ND	ND	ND	ND	ND
Benzo (a) pyrene	ND	ND	ND	ND	ND	ND	ND
Benzo (b) fluoranthene	ND	ND	ND	ND	ND	ND	ND
Benzo (ghi) perylene	ND	ND	ND	ND	ND	ND	ND
Benzo (k) fluoranthene	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroethoxy) methane	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroethyl) ether	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroisopropyl) ether	ND	ND	ND	ND	ND	ND	ND
Bis (2-ethylhexyl) phthalate	3	ND	1	11	ND	<10	<10
4-Bromophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND
Chrysene	ND	ND	ND	ND	ND	ND	ND
Dibenzo (a,h) anthracene	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND
3,3-Dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	2	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	2	2	2	ND	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	ND	ND	ND	ND	ND	ND	ND
1,2-Diphenylhydrazine	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	ND	ND	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND
Indeno (1,2,3-c,d) pyrene	ND	ND	ND	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodimethylamine	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodi-n-propylamine	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ND	ND	ND	ND	ND	ND	ND
Pyrene	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND
Total Base/Neutral Compounds Analyzed	7	2	3	11	0	0	0

* - Replicate Sample.

ND - Not Detected.

Table 5. Summary of Base/Neutral Extractable Compounds in Ground Water, Monsanto Company, J.F. Queeny Plant, St. Louis, Missouri.

Well Designation: Date:	MW2A 4/84	MW2A 8/84	MW2A 10/84	MW2A 1/85	MW2A 4/85	MW2A 7/85	MW2A 10/85
USEPA Priority Pollutant							
Base/Neutral Extractable							
Organic Compounds							
(Concentrations are in ug/L)							
Acenaphthene	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND
Anthracene	ND	ND	ND	ND	ND	ND	ND
Benzidine	ND	ND	ND	ND	ND	ND	ND
Benzo (a) anthracene	ND	ND	ND	ND	ND	ND	ND
Benzo (a) pyrene	ND	ND	ND	ND	ND	ND	ND
Benzo (b) fluoroanthene	ND	ND	ND	ND	ND	ND	ND
Benzo (ghi) perylene	ND	ND	ND	ND	ND	ND	ND
Benzo (k) fluoranthene	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroethoxy) methane	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroethyl) ether	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroisopropyl) ether	ND	ND	ND	ND	ND	ND	ND
Bis (2-ethylhexyl) phthalate	1	ND	1	ND	ND	<10	<10
4-Bromophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND
Chrysene	ND	ND	ND	ND	ND	ND	ND
Dibenzo (a,h) anthracene	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND
3,3-Dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	3	ND	<1	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	4	1	3	ND	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	ND	ND	ND	ND	ND	ND	ND
1,2-Diphenylhydrazine	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	ND	ND	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND
Indeno (1,2,3-c,d) pyrene	ND	ND	ND	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodimethylamine	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodi-n-propylamine	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ND	ND	ND	ND	ND	ND	ND
Pyrene	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND
Total Base/Neutral Compounds Analyzed	8	1	4	0	0	0	0

* - Replicate Sample.

ND - Not Detected.

Table 5. Summary of Base/Neutral Extractable Compounds in Ground Water, Monsanto Company, J.F. Queeny Plant, St. Louis, Missouri.

Well Designation: Date:	MW2A 12/86	MW2B 4/84	MW2B 8/84	MW2B 10/84	MW2B 1/85	MW2B 4/85	MW2B 7/85
USEPA Priority Pollutant							
Base/Neutral Extractable							
Organic Compounds							
(Concentrations are in ug/L)							
Acenaphthene	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND
Anthracene	ND	ND	ND	ND	ND	ND	ND
Benzidine	ND	ND	ND	ND	ND	ND	ND
Benzo (a) anthracene	ND	ND	ND	ND	ND	ND	ND
Benzo (a) pyrene	ND	ND	ND	ND	ND	ND	ND
Benzo (b) fluoroanthene	ND	ND	ND	ND	ND	ND	ND
Benzo (ghi) perylene	ND	ND	ND	ND	ND	ND	ND
Benzo (k) fluoranthene	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroethoxy) methane	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroethyl) ether	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroisopropyl) ether	ND	ND	ND	ND	ND	ND	ND
Bis (2-ethylhexyl) phthalate	ND	3	ND	1	11	ND	<10
4-Bromophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND
Chrysene	ND	ND	ND	ND	ND	ND	ND
Dibenzo (a,h) anthracene	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND
3,3-Dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	ND	2	ND	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	ND	3	3	1	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	ND	ND	ND	ND	ND	ND	ND
1,2-Diphenylhydrazine	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	ND	ND	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND
Indeno (1,2,3-c,d) pyrene	ND	ND	ND	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodimethylamine	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodi-n-propylamine	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ND	ND	ND	ND	ND	ND	ND
Pyrene	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND
Total Base/Neutral Compounds Analyzed	0	8	3	2	11	0	0

* - Replicate Sample.

ND - Not Detected.

Table 5. Summary of Base/Neutral Extractable Compounds in Ground Water, Monsanto Company, J.F. Queeny Plant, St. Louis, Missouri.

Well Designation: Date:	MW2B 10/85	MW2B 12/86	MW3 4/84	MW3 8/84	MW3 10/84	MW3 1/85	MW3 4/85
USEPA Priority Pollutant							
Base/Neutral Extractable							
Organic Compounds							
(Concentrations are in ug/L)							
Acenaphthene	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND
Anthracene	ND	ND	ND	ND	ND	ND	ND
Benzidine	ND	ND	ND	ND	ND	ND	ND
Benzo (a) anthracene	ND	ND	ND	ND	ND	ND	ND
Benzo (a) pyrene	ND	ND	ND	ND	ND	ND	ND
Benzo (b) fluoroanthene	ND	ND	ND	ND	ND	ND	ND
Benzo (ghi) perylene	ND	ND	ND	ND	ND	ND	ND
Benzo (k) fluoranthene	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroethoxy) methane	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroethyl) ether	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroisopropyl) ether	ND	ND	ND	ND	ND	ND	ND
Bis (2-ethylhexyl) phthalate	<10	11.4	146	ND	1	45	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND
Chrysene	ND	ND	ND	ND	ND	ND	ND
Dibenzo (a,h) anthracene	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	1	ND	<1	ND	2.2
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND
3,3-Dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	ND	ND	4	ND	ND	ND	<10
Dimethyl phthalate	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	<10	ND	3	1	1	ND	<10
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	11	ND
Di-n-octyl phthalate	ND	ND	ND	ND	ND	ND	ND
1,2-Diphenylhydrazine	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	ND	ND	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND
Indeno (1,2,3-c,d) pyrene	ND	ND	ND	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodimethylamine	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodi-n-propylamine	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ND	ND	ND	ND	ND	ND	ND
Pyrene	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND
Total Base/Neutral Compounds Analyzed	0	11.4	154	1	2	56	2.2

* - Replicate Sample.
ND - Not Detected.

Table 5. Summary of Base/Neutral Extractable Compounds in Ground Water, Monsanto Company, J.F. Queeny Plant, St. Louis, Missouri.

Well Designation: Date:	MW3 7/85	MW3 10/85	MW4 4/84	MW4 8/84	MW4 10/84	MW4 1/85	MW4 4/85
USEPA Priority Pollutant							
Base/Neutral Extractable							
Organic Compounds							
(Concentrations are in ug/L)							
Acenaphthene	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND
Anthracene	ND	ND	ND	ND	ND	ND	ND
Benzidine	ND	ND	ND	ND	ND	ND	ND
Benzo (a) anthracene	ND	ND	ND	ND	ND	ND	ND
Benzo (a) pyrene	ND	ND	ND	ND	ND	ND	ND
Benzo (b) fluoroanthene	ND	ND	ND	ND	ND	ND	ND
Benzo (ghi) perylene	ND	ND	ND	ND	ND	ND	ND
Benzo (k) fluoranthene	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroethoxy) methane	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroethyl) ether	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroisopropyl) ether	ND	ND	ND	ND	ND	ND	ND
Bis (2-ethylhexyl) phthalate	18.1	<11	2	13	1	ND	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	ND	2.42	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND
Chrysene	ND	ND	ND	ND	ND	ND	ND
Dibenzo (a,h) anthracene	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	2.56	4.07	16	5	1	12	9.1
1,3-Dichlorobenzene	ND	ND	5	1	3	ND	3.2
1,4-Dichlorobenzene	<4.4	<4.6	30	9	14	20	15.6
3,3-Dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	ND	ND	3	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	ND	ND	4	5	2	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	<10.0	ND	ND	ND	ND	ND	ND
1,2-Diphenylhydrazine	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	ND	ND	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND
Indeno (1,2,3-c,d) pyrene	ND	ND	ND	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ND	ND	2	ND	1	ND	ND
Nitrobenzene	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodimethylamine	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodi-n-propylamine	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ND	ND	ND	ND	ND	ND	ND
Pyrene	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	25	10	16	17	19.4
Total Base/Neutral Compounds Analyzed	20.7	6.5	87	43	38	49	47.3

* - Replicate Sample.

ND - Not Detected.

Table 5. Summary of Base/Neutral Extractable Compounds in Ground Water, Monsanto Company, J.F. Queeny Plant, St. Louis, Missouri.

Well Designation: Date:	MW4 7/85	MW4 10/85	MW4 10/85*	MW5 4/84	MW5 8/84	MW5 10/84	MW5 1/85
USEPA Priority Pollutant							
Base/Neutral Extractable							
Organic Compounds							
(Concentrations are in ug/L)							
Acenaphthene	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND
Anthracene	ND	ND	ND	ND	ND	ND	ND
Benzidine	ND	ND	ND	ND	ND	ND	ND
Benzo (a) anthracene	ND	ND	ND	ND	ND	ND	ND
Benzo (a) pyrene	ND	ND	ND	ND	ND	ND	ND
Benzo (b) fluoroanthene	ND	ND	ND	ND	ND	ND	ND
Benzo (ghi) perylene	ND	ND	ND	ND	ND	ND	ND
Benzo (k) fluoranthene	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroethoxy) methane	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroethyl) ether	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroisopropyl) ether	ND	ND	ND	ND	ND	ND	ND
Bis (2-ethylhexyl) phthalate	<10.0	ND	<10	6	ND	1	13
4-Bromophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND
Chrysene	ND	ND	ND	ND	ND	ND	ND
Dibenzo (a,h) anthracene	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	10.6	9.48	9.14	1	ND	ND	ND
1,3-Dichlorobenzene	3.12	2.77	2.81	ND	ND	ND	ND
1,4-Dichlorobenzene	18.2	16.6	18	1	ND	ND	ND
3,3-Dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	ND	ND	ND	3	ND	<1	ND
Dimethyl phthalate	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	ND	<10	<10	3	1	1	ND
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	ND	ND	ND	ND	ND	ND	ND
1,2-Diphenylhydrazine	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	ND	ND	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND
Indeno (1,2,3-c,d) pyrene	ND	ND	ND	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ND	<1.6	<1.6	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodimethylamine	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodi-n-propylamine	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ND	ND	ND	ND	ND	ND	ND
Pyrene	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	19.9	21.1	21.9	1	ND	ND	ND
Total Base/Neutral Compounds Analyzed	51.8	50	51.9	15	1	2	13

* - Replicate Sample.

ND - Not Detected.

Table 5. Summary of Base/Neutral Extractable Compounds in Ground Water, Monsanto Company, J.F. Queeny Plant, St. Louis, Missouri.

Well Designation: Date:	MW5 4/85	MW5 7/85	MW5 10/85	MW6A 4/84	MW6A 8/84	MW6A 10/84	MW6A 1/85
USEPA Priority Pollutant							
Base/Neutral Extractable							
Organic Compounds							
(Concentrations are in ug/L)							
Acenaphthene	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND
Anthracene	ND	ND	ND	ND	ND	ND	ND
Benzidine	ND	ND	ND	ND	ND	ND	ND
Benzo (a) anthracene	ND	ND	ND	ND	ND	ND	ND
Benzo (a) pyrene	ND	ND	ND	ND	ND	ND	ND
Benzo (b) fluoroanthene	ND	ND	ND	ND	ND	ND	ND
Benzo (ghi) perylene	ND	ND	ND	ND	ND	ND	ND
Benzo (k) fluoranthene	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroethoxy) methane	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroethyl) ether	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroisopropyl) ether	ND	ND	ND	ND	ND	ND	ND
Bis (2-ethylhexyl) phthalate	ND	<10.0	ND	ND	ND	988	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND
Chrysene	ND	ND	ND	ND	ND	ND	ND
Dibenzo (a,h) anthracene	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	14	2	18	24.9
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	1	3.6
1,4-Dichlorobenzene	ND	ND	ND	17	7	18	29.9
3,3-Dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	ND	ND	ND	8	1	3	ND
Dimethyl phthalate	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	ND	ND	ND	ND	2	11	ND
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	ND	ND	ND	ND	ND	10	ND
1,2-Diphenylhydrazine	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	ND	ND	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND
Indeno (1,2,3-c,d) pyrene	ND	ND	ND	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND	ND	4	ND
Nitrobenzene	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodimethylamine	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodi-n-propylamine	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ND	ND	ND	ND	ND	ND	ND
Pyrene	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND
Total Base/Neutral Compounds Analyzed	0	0	0	39	12	1,053	58.4

* - Replicate Sample.

ND - Not Detected.

Table 5. Summary of Base/Neutral Extractable Compounds in Ground Water, Monsanto Company, J.F. Queeny Plant, St. Louis, Missouri.

Well Designation: Date:	MW6A 4/85	MW6A 7/85	MW6A 10/85	MW6B 1/85	MW6B 4/85	MW6B 7/85	MW6B 10/85
USEPA Priority Pollutant							
Base/Neutral Extractable							
Organic Compounds							
(Concentrations are in ug/L)							
Acenaphthene	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND
Anthracene	ND	ND	ND	ND	ND	ND	ND
Benzidine	ND	ND	ND	ND	ND	ND	ND
Benzo (a) anthracene	ND	ND	ND	ND	ND	ND	ND
Benzo (a) pyrene	ND	ND	ND	ND	ND	ND	ND
Benzo (b) fluoranthene	ND	ND	ND	ND	ND	ND	ND
Benzo (ghi) perylene	ND	ND	ND	ND	ND	ND	ND
Benzo (k) fluoranthene	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroethoxy) methane	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroethyl) ether	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroisopropyl) ether	ND	ND	ND	ND	ND	ND	ND
Bis (2-ethylhexyl) phthalate	ND	24.2	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND
Chrysene	ND	ND	ND	ND	ND	ND	ND
Dibenzo (a,h) anthracene	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	19.3	15.6	13	11.5	10.0	8.89
1,3-Dichlorobenzene	ND	ND	<1.9	ND	<1.9	ND	ND
1,4-Dichlorobenzene	ND	19.7	16.0	14	10.5	10.2	9.63
3,3-Dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	ND	<11.2	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	ND	<11.2	ND	ND	ND	ND	ND
1,2-Diphenylhydrazine	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	ND	ND	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND
Indeno (1,2,3-c,d) pyrene	ND	ND	ND	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND	ND	ND	ND
Naphthalene	4.9	4.04	3.79	ND	ND	ND	ND
Nitrobenzene	ND	15.8	ND	ND	ND	ND	ND
n-Nitrosodimethylamine	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodi-n-propylamine	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ND	ND	ND	ND	ND	ND	ND
Pyrene	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND
Total Base/Neutral Compounds Analyzed	4.9	83	35.4	27	22	20.2	18.5

* - Replicate Sample.

ND - Not Detected.

Table 5. Summary of Base/Neutral Extractable Compounds in Ground Water, Monsanto Company, J.F. Queeny Plant, St. Louis, Missouri.

Well Designation: Date:	MW7A 4/84	MW7A 8/84	MW7A 10/84	MW7A 1/85	MW7A 4/85	MW7A 7/85	MW7A 10/85
USEPA Priority Pollutant							
Base/Neutral Extractable							
Organic Compounds							
(Concentrations are in ug/L)							
Acenaphthene	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND
Anthracene	ND	ND	ND	ND	ND	ND	ND
Benzidine	ND	ND	ND	ND	ND	ND	ND
Benzo (a) anthracene	ND	ND	ND	ND	ND	ND	ND
Benzo (a) pyrene	ND	ND	ND	ND	ND	ND	ND
Benzo (b) fluoroanthene	ND	ND	ND	ND	ND	ND	ND
Benzo (ghi) perylene	ND	ND	ND	ND	ND	ND	ND
Benzo (k) fluoranthene	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroethoxy) methane	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroethyl) ether	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroisopropyl) ether	ND	ND	ND	ND	ND	ND	ND
Bis (2-ethylhexyl) phthalate	58	4	8	ND	ND	<10.0	<10
4-Bromophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND
Chrysene	ND	ND	ND	ND	ND	ND	ND
Dibenzo (a,h) anthracene	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	1	7	2.6	4.03	ND
1,3-Dichlorobenzene	ND	ND	<1	4.7	ND	3.29	ND
1,4-Dichlorobenzene	14	2	5	11.2	12.8	5.94	ND
3,3-Dichlorobenzidine	ND	ND	ND	ND	ND	ND	<4.4
Diethyl phthalate	3	ND	1	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	3	4	7	4.4	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	ND	ND	ND	ND	ND	ND	ND
1,2-Diphenylhydrazine	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	ND	ND	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND
Indeno (1,2,3-c,d) pyrene	ND	ND	ND	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ND	ND	1	51.9	9	<1.6	ND
Nitrobenzene	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodimethylamine	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodi-n-propylamine	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ND	ND	ND	ND	ND	ND	ND
Pyrene	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND
Total Base/Neutral Compounds Analyzed	78	10	23	79.2	24.4	13.3	0

* - Replicate Sample.

ND - Not Detected.

Table 5. Summary of Base/Neutral Extractable Compounds in Ground Water, Monsanto Company, J.F. Queeny Plant, St. Louis, Missouri.

Well Designation: Date:	MW7A 12/86	MW7B 4/84	MW7B 8/84	MW7B 10/84	MW7B 1/85	MW7B 4/85	MW7B 7/85
USEPA Priority Pollutant							
Base/Neutral Extractable							
Organic Compounds							
(Concentrations are in ug/L)							
Acenaphthene	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND
Anthracene	ND	ND	ND	ND	ND	ND	ND
Benzidine	ND	ND	ND	ND	ND	ND	ND
Benzo (a) anthracene	ND	ND	ND	ND	ND	ND	ND
Benzo (a) pyrene	ND	ND	ND	ND	ND	ND	ND
Benzo (b) fluoroanthene	ND	ND	ND	ND	ND	ND	ND
Benzo (ghi) perylene	ND	ND	ND	ND	ND	ND	ND
Benzo (k) fluoranthene	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroethoxy) methane	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroethyl) ether	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroisopropyl) ether	ND	ND	ND	ND	ND	ND	ND
Bis (2-ethylhexyl) phthalate	<5.6	ND	13	2	9.2	<10	<10.5
4-Bromophenyl phenyl ether	28.0	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND
Chrysene	ND	ND	ND	ND	ND	ND	ND
Dibenzo (a,h) anthracene	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	6.43	44	34	102	111	52.8	ND
1,3-Dichlorobenzene	5.41	ND	ND	5	6.2	3.3	ND
1,4-Dichlorobenzene	7.46	738	605	1,000	1,100	452	970
3,3-Dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	<9.9	4	ND	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	<9.9	2	3	3	ND	<10	ND
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	ND	ND	ND	ND	3.1	ND	ND
1,2-Diphenylhydrazine	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	ND	ND	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND
Indeno (1,2,3-c,d) pyrene	ND	ND	ND	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ND	274	ND	ND	844	20	1,740
Nitrobenzene	ND	58	133	706	130	10.7	916
n-Nitrosodimethylamine	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodi-n-propylamine	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ND	ND	ND	ND	ND	ND	ND
Pyrene	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND
Total Base/Neutral Compounds Analyzed	47.3	1,120	788	1,818	2,203.5	538.8	3,626

* - Replicate Sample.
ND - Not Detected.

Table 5. Summary of Base/Neutral Extractable Compounds in Ground Water, Monsanto Company, J.F. Queeny Plant, St. Louis, Missouri.

Well Designation: Date:	MW7B 10/85	MW7B 12/86	MW8A 4/84	MW8A 8/84	MW8A 10/84	MW8A 1/85	MW8A 4/85
USEPA Priority Pollutant							
Base/Neutral Extractable							
Organic Compounds							
(Concentrations are in ug/L)							
Acenaphthene	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND
Anthracene	ND	ND	ND	ND	ND	ND	ND
Benzidine	ND	ND	ND	ND	ND	ND	ND
Benzo (a) anthracene	ND	ND	ND	ND	ND	ND	ND
Benzo (a) pyrene	ND	ND	ND	ND	ND	ND	ND
Benzo (b) fluoroanthene	ND	ND	ND	ND	ND	ND	ND
Benzo (ghi) perylene	ND	ND	ND	ND	ND	ND	ND
Benzo (k) fluoranthene	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroethoxy) methane	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroethyl) ether	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroisopropyl) ether	ND	ND	ND	ND	ND	ND	ND
Bis (2-ethylhexyl) phthalate	<10	ND	3	ND	127	13.7	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND
Chrysene	ND	ND	ND	ND	ND	ND	ND
Dibenzo (a,h) anthracene	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	45.6	36.1	59	4	11	6.1	6.8
1,3-Dichlorobenzene	ND	3.02	ND	ND	1	ND	ND
1,4-Dichlorobenzene	399	591	78	5	15	8.2	8.8
3,3-Dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	ND	ND	39	ND	<1	ND	ND
Dimethyl phthalate	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	ND	ND	ND	3	10	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	ND	ND	ND	ND	3	ND	ND
1,2-Diphenylhydrazine	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	ND	ND	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND
Indeno (1,2,3-c,d) pyrene	ND	ND	ND	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND	ND	ND	ND
Naphthalene	434	ND	ND	ND	<1	2.6	2.0
Nitrobenzene	23.3	ND	ND	ND	ND	ND	ND
n-Nitrosodimethylamine	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodi-n-propylamine	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ND	ND	ND	ND	<1	ND	ND
Pyrene	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND
Total Base/Neutral Compounds Analyzed	901.9	630.1	179	12	167	30.6	17.6

* - Replicate Sample.

ND - Not Detected.

Table 5. Summary of Base/Neutral Extractable Compounds in Ground Water, Monsanto Company, J.F. Queeny Plant, St. Louis, Missouri.

Well Designation: Date:	MW8A 7/85	MW8A 10/85	MW8A 12/86	MW8AR 12/86	MW8B 4/84	MW8B 8/84	MW8B 10/84
USEPA Priority Pollutant							
Base/Neutral Extractable							
Organic Compounds							
(Concentrations are in ug/L)							
Acenaphthene	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND
Anthracene	ND	ND	ND	ND	ND	ND	ND
Benzidine	ND	ND	ND	ND	ND	ND	ND
Benzo (a) anthracene	ND	ND	ND	ND	ND	ND	ND
Benzo (a) pyrene	ND	ND	ND	ND	ND	ND	ND
Benzo (b) fluoroanthene	ND	ND	ND	ND	ND	ND	ND
Benzo (ghi) perylene	ND	ND	ND	ND	ND	ND	ND
Benzo (k) fluoranthene	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroethoxy) methane	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroethyl) ether	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroisopropyl) ether	ND	ND	ND	ND	ND	ND	ND
Bis (2-ethylhexyl) phthalate	<10.0	19.0	<10	<10	2	ND	2
4-Bromophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND
Chrysene	ND	ND	ND	ND	ND	ND	ND
Dibenzo (a,h) anthracene	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	17.6	6.07	3.06	3.56	ND	ND	ND
1,3-Dichlorobenzene	<1.9	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	24.3	8.44	<4.4	5.30	ND	ND	ND
3,3-Dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	ND	ND	<10	ND	3	ND	<1
Dimethyl phthalate	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	ND	ND	<10	<10	2	3	4
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	ND	<10	ND	ND	ND	ND	ND
1,2-Diphenylhydrazine	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	ND	ND	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND
Indeno (1,2,3-c,d) pyrene	ND	ND	ND	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND	ND	ND	ND
Naphthalene	<1.9	ND	ND	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodimethylamine	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodi-n-propylamine	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ND	ND	ND	ND	ND	ND	<1
Pyrene	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND
Total Base/Neutral Compounds Analyzed	41.9	33.5	3.1	8.9	7.0	3	6

* - Replicate Sample.

ND - Not Detected.

Table 5. Summary of Base/Neutral Extractable Compounds in Ground Water, Monsanto Company, J.F. Queeny Plant, St. Louis, Missouri.

Well Designation: Date:	MW88 1/85	MW88 4/85	MW88 7/85	MW88 10/85	MW88 12/86	MW9 4/84	MW9 8/84
USEPA Priority Pollutant							
Base/Neutral Extractable							
Organic Compounds							
(Concentrations are in ug/L)							
Acenaphthene	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND
Anthracene	ND	ND	ND	ND	ND	ND	ND
Benzidine	ND	ND	ND	ND	ND	ND	ND
Benzo (a) anthracene	ND	ND	ND	ND	ND	ND	ND
Benzo (a) pyrene	ND	ND	ND	ND	ND	ND	ND
Benzo (b) fluoranthene	ND	ND	ND	ND	ND	ND	ND
Benzo (ghi) perylene	ND	ND	ND	ND	ND	ND	ND
Benzo (k) fluoranthene	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroethoxy) methane	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroethyl) ether	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroisopropyl) ether	ND	ND	ND	ND	ND	ND	ND
Bis (2-ethylhexyl) phthalate	15.8	ND	<12.5	<10	ND	1	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND
Chrysene	ND	ND	ND	ND	ND	ND	ND
Dibenzo (a,h) anthracene	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND
3,3-Dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	ND	ND	ND	ND	ND	4	ND
Dimethyl phthalate	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	8.1	ND	ND	<10	ND	2	2
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	ND	ND	ND	ND	ND	ND	ND
1,2-Diphenylhydrazine	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	ND	ND	ND	ND	4.45	ND	ND
Fluorene	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND
Indeno (1,2,3-c,d) pyrene	ND	ND	ND	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodimethylamine	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodi-n-propylamine	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ND	ND	ND	ND	ND	ND	ND
Pyrene	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND
Total Base/Neutral Compounds Analyzed	23.9	0	0	0	4.5	7	2

* - Replicate Sample.
ND - Not Detected.

Table 5. Summary of Base/Neutral Extractable Compounds in Ground Water, Monsanto Company, J.F. Queeny Plant, St. Louis, Missouri.

Well Designation: Date:	MW9 10/84	MW9 1/85	MW9 4/85	MW9 7/85	MW9 10/85	MW9 12/86	MW10 4/84
USEPA Priority Pollutant							
Base/Neutral Extractable							
Organic Compounds							
(Concentrations are in ug/L)							
Acenaphthene	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND
Anthracene	ND	ND	ND	ND	ND	ND	ND
Benzidine	ND	ND	ND	ND	ND	ND	ND
Benzo (a) anthracene	ND	ND	ND	ND	ND	ND	ND
Benzo (a) pyrene	ND	ND	ND	ND	ND	ND	ND
Benzo (b) fluoroanthene	ND	ND	ND	ND	ND	ND	ND
Benzo (ghi) perylene	ND	ND	ND	ND	ND	ND	ND
Benzo (k) fluoranthene	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroethoxy) methane	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroethyl) ether	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroisopropyl) ether	ND	ND	ND	ND	ND	ND	ND
Bis (2-ethylhexyl) phthalate	1	17	ND	<10.1	ND	ND	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND
Chrysene	ND	ND	ND	ND	ND	ND	ND
Dibenzo (a,h) anthracene	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND
3,3-Dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	<1	ND	ND	ND	ND	ND	3
Dimethyl phthalate	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	2	ND	ND	<10.1	ND	ND	3
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	ND	ND	ND	ND	ND	ND	ND
1,2-Diphenylhydrazine	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	ND	ND	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND
Indeno (1,2,3-c,d) pyrene	ND	ND	ND	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodimethylamine	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodi-n-propylamine	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ND	ND	ND	ND	ND	ND	ND
Pyrene	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND
Total Base/Neutral Compounds Analyzed	3	17	0	0	0	0	6

* - Replicate Sample.

ND - Not Detected.

Table 5. Summary of Base/Neutral Extractable Compounds in Ground Water, Monsanto Company, J.F. Queeny Plant, St. Louis, Missouri.

Well Designation: Date:	MW10 8/84	MW10 10/84	MW10 1/85	MW10 4/85	MW10 7/85	MW10 10/85	MW11A 4/84
USEPA Priority Pollutant							
Base/Neutral Extractable							
Organic Compounds							
(Concentrations are in ug/L)							
Acenaphthene	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND
Anthracene	ND	ND	ND	ND	ND	ND	ND
Benzidine	ND	ND	ND	ND	ND	ND	ND
Benzo (a) anthracene	ND	ND	ND	ND	ND	ND	ND
Benzo (a) pyrene	ND	ND	ND	ND	ND	ND	ND
Benzo (b) fluoroanthene	ND	ND	ND	ND	ND	ND	ND
Benzo (ghi) perylene	ND	ND	ND	ND	ND	ND	ND
Benzo (k) fluoranthene	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroethoxy) methane	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroethyl) ether	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroisopropyl) ether	ND	ND	ND	ND	ND	ND	ND
Bis (2-ethylhexyl) phthalate	ND	3	19	ND	<10.0	ND	345
4-Bromophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND
Chrysene	ND	ND	ND	ND	ND	ND	ND
Dibenzo (a,h) anthracene	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	2
3,3-Dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	ND	1	ND	ND	ND	ND	2
Dimethyl phthalate	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	2	2	12	ND	ND	<10	3
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	ND	<1	ND	ND	ND	ND	3
1,2-Diphenylhydrazine	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	ND	ND	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND
Indeno (1,2,3-c,d) pyrene	ND	ND	ND	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodimethylamine	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodi-n-propylamine	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ND	ND	ND	ND	<5.4	ND	ND
Pyrene	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND
Total Base/Neutral Compounds Analyzed	2	6	31	0	0	0	355

* - Replicate Sample.

ND - Not Detected.

Table 5. Summary of Base/Neutral Extractable Compounds in Ground Water, Monsanto Company, J.F. Queeny Plant, St. Louis, Missouri.

Well Designation: Date:	MW11A 8/84	MW11A 10/84	MW11A 1/85	MW11A 4/85	MW11A 7/85	MW11A 10/85	MW11B 4/84
USEPA Priority Pollutant							
Base/Neutral Extractable							
Organic Compounds							
(Concentrations are in ug/L)							
Acenaphthene	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND
Anthracene	ND	ND	ND	ND	ND	ND	ND
Benzidine	ND	ND	ND	ND	ND	ND	ND
Benzo (a) anthracene	ND	ND	ND	ND	ND	ND	ND
Benzo (a) pyrene	ND	ND	ND	ND	ND	ND	ND
Benzo (b) fluoroanthene	ND	ND	ND	ND	ND	ND	ND
Benzo (ghi) perylene	ND	ND	ND	ND	ND	ND	ND
Benzo (k) fluoranthene	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroethoxy) methane	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroethyl) ether	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroisopropyl) ether	ND	ND	ND	ND	ND	ND	ND
Bis (2-ethylhexyl) phthalate	5	ND	ND	ND	<10.0	<10	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND
Chrysene	1	ND	ND	ND	ND	ND	ND
Dibenzo (a,h) anthracene	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND
3,3-Dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	1	ND	ND	ND	ND	ND	28
Dimethyl phthalate	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	4	ND	ND	ND	ND	<10	8
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	1	ND	ND	ND	ND	ND	ND
1,2-Diphenylhydrazine	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	1	ND	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND
Indeno (1,2,3-c,d) pyrene	ND	ND	ND	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodimethylamine	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodi-n-propylamine	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	1	ND	ND	ND	ND	ND	ND
Pyrene	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND
Total Base/Neutral Compounds Analyzed	14	0	0	0	0	0	36

* - Replicate Sample.
ND - Not Detected.

Table 5. Summary of Base/Neutral Extractable Compounds in Ground Water, Monsanto Company, J.F. Queeny Plant, St. Louis, Missouri.

Well Designation: Date:	MW11B 8/84	MW11B 10/84	MW11B 1/85	MW11B 4/85	MW11B 7/85	MW11B 10/85	MW11C 1/85
USEPA Priority Pollutant							
Base/Neutral Extractable							
Organic Compounds							
(Concentrations are in ug/L)							
Acenaphthene	ND	<1	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND
Anthracene	ND	ND	ND	ND	<1.9	ND	ND
Benzidine	ND	ND	ND	ND	ND	ND	ND
Benzo (a) anthracene	ND	ND	ND	ND	ND	ND	ND
Benzo (a) pyrene	ND	ND	ND	ND	ND	ND	12
Benzo (b) fluoroanthene	ND	ND	ND	ND	ND	ND	ND
Benzo (ghi) perylene	ND	ND	ND	ND	ND	ND	ND
Benzo (k) fluoranthene	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroethoxy) methane	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroethyl) ether	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroisopropyl) ether	ND	ND	ND	ND	ND	ND	ND
Bis (2-ethylhexyl) phthalate	44	1	ND	ND	<10	ND	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND
Chrysene	ND	ND	ND	ND	ND	ND	ND
Dibenzo (a,h) anthracene	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND
3,3-Dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	3	2	ND	ND	<10	31.2	ND
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	ND	ND	ND	ND	ND	ND	ND
1,2-Diphenylhydrazine	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	ND	ND	ND	ND	ND	ND	25
Fluorene	ND	ND	ND	ND	<1.9	ND	ND
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND
Indeno (1,2,3-c,d) pyrene	ND	ND	ND	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND	<2.2	ND	ND
Naphthalene	ND	ND	ND	ND	<1.6	ND	ND
Nitrobenzene	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodimethylamine	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodi-n-propylamine	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ND	<1	ND	ND	ND	ND	11
Pyrene	ND	ND	ND	ND	ND	ND	23
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND
Total Base/Neutral Compounds Analyzed	47	3	0	0	0	31.2	71

* - Replicate Sample.

ND - Not Detected.

Table 5. Summary of Base/Neutral Extractable Compounds in Ground Water, Monsanto Company, J.F. Queeny Plant, St. Louis, Missouri.

Well Designation: Date:	MW11C 4/85	MW11C 7/85	MW11C 10/85	MW12 1/85	MW12 4/85	MW12 7/85	MW12 10/85
USEPA Priority Pollutant							
Base/Neutral Extractable							
Organic Compounds							
(Concentrations are in ug/L)							
Acenaphthene	ND	ND	ND	13	7.3	8.98	12.3
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND
Anthracene	ND	<1.9	ND	ND	ND	ND	ND
Benzidine	ND	ND	ND	ND	ND	ND	ND
Benzo (a) anthracene	ND	ND	ND	ND	ND	ND	ND
Benzo (a) pyrene	ND	ND	ND	ND	ND	ND	ND
Benzo (b) fluoroanthene	ND	ND	ND	ND	ND	ND	ND
Benzo (ghi) perylene	ND	ND	ND	ND	ND	ND	ND
Benzo (k) fluoranthene	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroethoxy) methane	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroethyl) ether	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroisopropyl) ether	ND	ND	ND	ND	ND	ND	ND
Bis (2-ethylhexyl) phthalate	ND	11.8	ND	ND	ND	<10.0	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND
Chrysene	ND	ND	ND	ND	ND	ND	ND
Dibenzo (a,h) anthracene	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND
3,3-Dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	ND	ND	ND	ND	ND	ND	ND
1,2-Diphenylhydrazine	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	2.3	ND	ND	ND	4.3	2.48	<2.2
Fluorene	ND	<1.9	ND	ND	ND	8.60	9.36
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND
Indeno (1,2,3-c,d) pyrene	ND	ND	ND	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ND	<1.6	ND	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodimethylamine	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodi-n-propylamine	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ND	ND	ND	ND	ND	<5.4	ND
Pyrene	2.4	ND	ND	ND	ND	<1.9	<1.9
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND
Total Base/Neutral Compounds Analyzed	4.7	11.8	0	13	11.6	20.1	21.7

* - Replicate Sample.

ND - Not Detected.

Table 5. Summary of Base/Neutral Extractable Compounds in Ground Water, Monsanto Company, J.F. Queeny Plant, St. Louis, Missouri.

Well Designation: Date:	MW13 1/85	MW13 4/85	MW13 7/85	MW13 10/85	MW14 1/85	MW14 4/85	MW14 7/85
USEPA Priority Pollutant							
Base/Neutral Extractable							
Organic Compounds							
(Concentrations are in ug/L)							
Acenaphthene	ND	6.7	2.79	17.3	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND
Anthracene	ND	ND	ND	3.59	ND	ND	ND
Benzidine	ND	ND	ND	ND	ND	ND	ND
Benzo (a) anthracene	ND	ND	ND	ND	ND	ND	<2.5
Benzo (a) pyrene	ND	ND	ND	ND	ND	ND	<4.8
Benzo (b) fluoroanthene	ND	ND	ND	ND	ND	ND	ND
Benzo (ghi) perylene	ND	ND	ND	ND	ND	ND	ND
Benzo (k) fluoranthene	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroethoxy) methane	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroethyl) ether	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroisopropyl) ether	ND	ND	ND	ND	ND	ND	ND
Bis (2-ethylhexyl) phthalate	ND	ND	<10.0	ND	ND	ND	12.2
4-Bromophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND
Chrysene	ND	ND	ND	ND	ND	ND	ND
Dibenzo (a,h) anthracene	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND
3,3-Dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	ND	ND	<10	<10	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	ND	ND	ND	ND	ND	ND	ND
1,2-Diphenylhydrazine	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	16	5.2	ND	2.89	ND	6.4	<2.2
Fluorene	ND	ND	<1.9	17.2	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND
Indeno (1,2,3-c,d) pyrene	ND	ND	ND	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ND	1.9	ND	3.20	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodimethylamine	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodi-n-propylamine	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	11	30.4	<5.5	<5.5	ND	5.7	ND
Pyrene	ND	ND	ND	<1.9	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND
Total Base/Neutral Compounds Analyzed	27	44.2	2.8	44.2	0	12.1	12.2

* - Replicate Sample.

ND - Not Detected.

Table 5. Summary of Base/Neutral Extractable Compounds in Ground Water, Monsanto Company, J.F. Queeny Plant, St. Louis, Missouri.

Well Designation: Date:	MW14 10/85	MW14 12/86	MW15 1/85	MW15 4/85	MW15 7/85	MW16 1/85	MW16 4/85
USEPA Priority Pollutant							
Base/Neutral Extractable							
Organic Compounds							
(Concentrations are in ug/L)							
Acenaphthene	3.46	NA	ND	ND	ND	ND	ND
Acenaphthylene	ND	NA	ND	ND	ND	ND	ND
Anthracene	ND	NA	ND	ND	ND	ND	ND
Benzidine	ND	NA	ND	ND	ND	ND	ND
Benzo (a) anthracene	<8.3	NA	ND	ND	ND	ND	ND
Benzo (a) pyrene	ND	NA	ND	ND	ND	ND	ND
Benzo (b) fluoroanthene	ND	NA	ND	ND	ND	ND	ND
Benzo (ghi) perylene	ND	NA	ND	ND	ND	ND	ND
Benzo (k) fluoranthene	ND	NA	ND	ND	ND	ND	ND
Bis (2-chloroethoxy) methane	ND	NA	ND	ND	ND	ND	ND
Bis (2-chloroethyl) ether	ND	NA	ND	ND	ND	ND	ND
Bis (2-chloroisopropyl) ether	ND	NA	ND	ND	ND	ND	ND
Bis (2-ethylhexyl) phthalate	28.0	NA	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	ND	NA	ND	ND	ND	ND	ND
Butyl benzyl phthalate	ND	NA	ND	ND	ND	ND	ND
2-Chloronaphthalene	ND	NA	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	NA	ND	ND	ND	ND	ND
Chrysene	ND	NA	ND	ND	ND	ND	ND
Dibenzo (a,h) anthracene	ND	NA	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	NA	11	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	NA	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	9.70	NA	ND	ND	ND	ND	ND
3,3-Dichlorobenzidine	ND	NA	ND	ND	ND	ND	ND
Diethyl phthalate	ND	NA	ND	ND	ND	ND	ND
Dimethyl phthalate	ND	NA	ND	ND	ND	ND	ND
Di-n-butyl phthalate	ND	NA	ND	ND	<10.0	ND	ND
2,4-Dinitrotoluene	ND	NA	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	NA	ND	ND	ND	ND	ND
Di-n-octyl phthalate	ND	NA	ND	ND	ND	ND	ND
1,2-Diphenylhydrazine	ND	NA	ND	ND	ND	ND	ND
Fluoranthene	2.78	NA	ND	ND	ND	ND	ND
Fluorene	3.51	NA	ND	ND	ND	ND	ND
Hexachlorobenzene	ND	NA	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	NA	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	NA	ND	ND	ND	ND	ND
Hexachloroethane	ND	NA	ND	ND	ND	ND	ND
Indeno (1,2,3-c,d) pyrene	ND	NA	ND	ND	ND	ND	ND
Isophorone	ND	NA	ND	ND	ND	ND	ND
Naphthalene	6.45	NA	ND	ND	ND	ND	ND
Nitrobenzene	ND	NA	ND	ND	ND	ND	ND
n-Nitrosodimethylamine	ND	NA	ND	ND	ND	ND	ND
n-Nitrosodi-n-propylamine	ND	NA	ND	ND	ND	ND	ND
n-Nitrosodiphenylamine	ND	NA	89	ND	ND	ND	ND
Phenanthrene	ND	NA	ND	62.3	ND	ND	ND
Pyrene	ND	NA	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	NA	ND	ND	ND	ND	ND
Total Base/Neutral Compounds Analyzed	53.9	0	100	62.3	0	0	0

* - Replicate Sample.

ND - Not Detected.

Table 5. Summary of Base/Neutral Extractable Compounds in Ground Water, Monsanto Company, J.F. Queeny Plant, St. Louis, Missouri.

Well Designation: Date:	MW16 7/85	MW16 10/85	MW17 1/85	MW17 4/85	MW17 7/85	MW17 10/85	MW18A 1/85
USEPA Priority Pollutant							
Base/Neutral Extractable							
Organic Compounds							
(Concentrations are in ug/L)							
Acenaphthene	ND	ND	ND	ND	2.02	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND
Anthracene	<1.9	ND	ND	ND	2.81	ND	ND
Benzidine	ND	ND	ND	ND	ND	ND	ND
Benzo (a) anthracene	ND	ND	ND	ND	ND	ND	ND
Benzo (a) pyrene	ND	ND	ND	ND	ND	ND	ND
Benzo (b) fluoroanthene	ND	ND	ND	ND	ND	ND	ND
Benzo (ghi) perylene	ND	ND	ND	ND	ND	ND	ND
Benzo (k) fluoranthene	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroethoxy) methane	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroethyl) ether	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroisopropyl) ether	ND	ND	ND	ND	ND	ND	ND
Bis (2-ethylhexyl) phthalate	<10	ND	ND	ND	<10	<10	22.7
4-Bromophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND
Chrysene	ND	ND	ND	ND	ND	ND	ND
Dibenzo (a,h) anthracene	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	1.9
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND
3,3-Dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	ND	<10	ND	ND	ND	<10	ND
2,4-Dinitrotoluene	6.71	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	ND	ND	ND	ND	ND	ND	ND
1,2-Diphenylhydrazine	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	ND	ND	ND	ND	4.30	ND	ND
Fluorene	ND	ND	ND	ND	2.35	ND	ND
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND
Indeno (1,2,3-c,d) pyrene	ND	ND	ND	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND	ND	ND	ND
Naphthalene	<1.6	ND	ND	ND	ND	ND	15.8
Nitrobenzene	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodimethylamine	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodi-n-propylamine	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ND	ND	ND	ND	11.8	ND	ND
Pyrene	ND	ND	ND	ND	2.88	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND
Total Base/Neutral Compounds Analyzed	6.7	0	0	0	26.2	0	40.4

* - Replicate Sample.

ND - Not Detected.

Table 5. Summary of Base/Neutral Extractable Compounds in Ground Water, Monsanto Company, J.F. Queeny Plant, St. Louis, Missouri.

Well Designation: Date:	MW18A 4/85	MW18A 7/85	MW18A 10/85	MW18A 12/86	MW18B 1/85	MW18B 4/85	MW18B 7/85
USEPA Priority Pollutant							
Base/Neutral Extractable							
Organic Compounds							
(Concentrations are in ug/L)							
Acenaphthene	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND
Anthracene	ND	ND	ND	ND	ND	ND	ND
Benzidine	ND	ND	ND	ND	ND	ND	ND
Benzo (a) anthracene	ND	ND	ND	ND	ND	ND	ND
Benzo (a) pyrene	ND	ND	ND	ND	ND	ND	ND
Benzo (b) fluoroanthene	ND	ND	ND	ND	ND	ND	ND
Benzo (ghi) perylene	ND	ND	ND	ND	ND	ND	ND
Benzo (k) fluoranthene	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroethoxy) methane	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroethyl) ether	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroisopropyl) ether	ND	ND	ND	ND	ND	ND	ND
Bis (2-ethylhexyl) phthalate	15.5	<10.5	44.1	14.1	ND	ND	<11.2
4-Bromophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND
Chrysene	ND	ND	ND	ND	ND	ND	ND
Dibenzo (a,h) anthracene	ND	ND	ND	3.30	ND	ND	ND
1,2-Dichlorobenzene	2.1	11.2	30.7	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	6.59	7.32	ND	ND	ND
1,4-Dichlorobenzene	ND	46.5	67.8	ND	ND	ND	ND
3,3-Dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	ND	ND	ND	<10	3.8	ND	<11.2
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	ND	ND	<10	ND	ND	ND	ND
1,2-Diphenylhydrazine	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	ND	ND	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND
Indeno (1,2,3-c,d) pyrene	ND	ND	ND	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND	ND	ND	ND
Naphthalene	15.7	191	229	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodimethylamine	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodi-n-propylamine	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ND	ND	ND	ND	ND	ND	ND
Pyrene	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND
Total Base/Neutral Compounds Analyzed	33.3	248.7	378.2	24.7	3.8	0	0

* - Replicate Sample.

ND - Not Detected.

Table 5. Summary of Base/Neutral Extractable Compounds in Ground Water, Monsanto Company, J.F. Queeny Plant, St. Louis, Missouri.

Well Designation:	MW188	MW188	MW19	MW19	MW19	MW19	MW19
Date:	10/85	12/86	1/85	4/85	7/85	10/85	12/86
USEPA Priority Pollutant							
Base/Neutral Extractable							
Organic Compounds							
(Concentrations are in ug/L)							
Acenaphthene	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND
Anthracene	ND	ND	ND	ND	ND	ND	ND
Benzidine	ND	ND	ND	ND	ND	ND	ND
Benzo (a) anthracene	ND	ND	ND	ND	ND	ND	ND
Benzo (a) pyrene	ND	ND	ND	ND	ND	ND	ND
Benzo (b) fluoroanthene	ND	ND	ND	ND	ND	ND	ND
Benzo (ghi) perylene	ND	ND	ND	ND	ND	ND	ND
Benzo (k) fluoranthene	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroethoxy) methane	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroethyl) ether	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroisopropyl) ether	ND	ND	ND	ND	ND	ND	ND
Bis (2-ethylhexyl) phthalate	ND	17.6	ND	ND	<10.0	ND	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND
Chrysene	ND	ND	ND	ND	ND	ND	ND
Dibenzo (a,h) anthracene	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND
3,3-Dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	ND	<11	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	ND	ND	ND	ND	ND	ND	ND
1,2-Diphenylhydrazine	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	ND	ND	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND
Indeno (1,2,3-c,d) pyrene	ND	ND	ND	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND	<2.2	2.96	ND
Naphthalene	ND	ND	ND	2.4	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodimethylamine	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodi-n-propylamine	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ND	ND	ND	ND	ND	ND	ND
Pyrene	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND
Total Base/Neutral Compounds Analyzed	0	17.6	0	2.4	0	3	0

* - Replicate Sample.

ND - Not Detected.

Table 5. Summary of Base/Neutral Extractable Compounds in Ground Water, Monsanto Company, J.F. Queeny Plant, St. Louis, Missouri.

Well Designation: Date:	MW20 1/85	MW20 4/85	MW20 7/85	MW20 10/85	MW20 12/86	BLANK 10/84	BLANK 10/84
USEPA Priority Pollutant							
Base/Neutral Extractable							
Organic Compounds							
(Concentrations are in ug/L)							
Acenaphthene	ND	ND	9.59	8.61	8.47	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND
Anthracene	ND	ND	2.48	ND	<2.0	ND	ND
Benzidine	ND	ND	ND	ND	ND	ND	ND
Benzo (a) anthracene	ND	ND	<7.9	ND	ND	ND	ND
Benzo (a) pyrene	ND	ND	<2.5	ND	ND	ND	ND
Benzo (b) fluoroanthene	ND	ND	ND	ND	ND	ND	ND
Benzo (ghi) perylene	ND	ND	ND	ND	ND	ND	ND
Benzo (k) fluoroanthene	ND	ND	<3.5	ND	ND	ND	ND
Bis (2-chloroethoxy) methane	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroethyl) ether	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroisopropyl) ether	ND	ND	ND	ND	ND	ND	ND
Bis (2-ethylhexyl) phthalate	ND	ND	<10.1	ND	13.0	ND	1
4-Bromophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND
Chrysene	ND	ND	ND	ND	ND	ND	ND
Dibenzo (a,h) anthracene	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND
3,3-Dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	ND	ND	<10.1	ND	ND	1	1
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	ND	ND	ND	ND	ND	ND	ND
1,2-Diphenylhydrazine	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	ND	2.5	15.1	2.50	5.34	ND	ND
Fluorene	ND	4.0	9.75	6.93	7.87	ND	ND
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND
Indeno (1,2,3-c,d) pyrene	ND	ND	ND	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodimethylamine	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodi-n-propylamine	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ND	ND	<5.5	ND	ND	ND	ND
Pyrene	ND	ND	13.1	<1.9	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND
Total Base/Neutral Compounds Analyzed	0	6.5	50	18	34.7	1	2

* - Replicate Sample.

ND - Not Detected.

Table 5. Summary of Base/Neutral Extractable Compounds in Ground Water, Monsanto Company, J.F. Queeny Plant, St. Louis, Missouri.

Well Designation:	LAB BLANK	LAB BLANK	LAB BLANK	METHOD BLANK	JAR BLANK	JAR BLANK	XFB1
Date:	10/84	10/84	10/84	1/85	1/85	1/85	10/85
USEPA Priority Pollutant							
Base/Neutral Extractable							
Organic Compounds							
(Concentrations are in ug/L)							
Acenaphthene	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND
Anthracene	ND	ND	ND	ND	ND	ND	ND
Benzidine	ND	ND	ND	ND	ND	ND	ND
Benzo (a) anthracene	ND	ND	ND	ND	ND	ND	ND
Benzo (a) pyrene	ND	ND	ND	ND	ND	ND	ND
Benzo (b) fluoroanthene	ND	ND	ND	ND	ND	ND	ND
Benzo (ghi) perylene	ND	ND	ND	ND	ND	ND	ND
Benzo (k) fluoranthene	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroethoxy) methane	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroethyl) ether	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroisopropyl) ether	ND	ND	ND	ND	ND	ND	ND
Bis (2-ethylhexyl) phthalate	<1	<1	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND
Chrysene	ND	ND	ND	ND	ND	ND	ND
Dibenzo (a,h) anthracene	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND
3,3-Dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	ND	ND	ND	2.7	ND	ND	<11
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	ND	ND	ND	ND	ND	ND	ND
1,2-Diphenylhydrazine	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	ND	ND	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND
Indeno (1,2,3-c,d) pyrene	ND	ND	ND	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodimethylamine	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodi-n-propylamine	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ND	ND	ND	ND	ND	ND	ND
Pyrene	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND
Total Base/Neutral Compounds Analyzed	0	0	0	2.7	0	0	0

* - Replicate Sample.

ND - Not Detected.

Table 5. Summary of Base/Neutral Extractable Compounds in Ground Water, Monsanto Company, J.F. Queeny Plant, St. Louis, Missouri.

=====			
Well Designation:	XFB1	XFB2	XFB2
Date:	12/86	10/85	12/86
USEPA Priority Pollutant			
Base/Neutral Extractable			
Organic Compounds			
(Concentrations are in ug/L)			

Acenaphthene	ND	ND	ND
Acenaphthylene	ND	ND	ND
Anthracene	ND	ND	ND
Benzidine	ND	ND	ND
Benzo (a) anthracene	ND	ND	ND
Benzo (a) pyrene	ND	ND	ND
Benzo (b) fluoroanthene	ND	ND	ND
Benzo (ghi) perylene	ND	ND	ND
Benzo (k) fluoranthene	ND	ND	ND
Bis (2-chloroethoxy) methane	ND	ND	ND
Bis (2-chloroethyl) ether	ND	ND	ND
Bis (2-chloroisopropyl) ether	ND	ND	ND
Bis (2-ethylhexyl) phthalate	ND	ND	ND
4-Bromophenyl phenyl ether	ND	ND	ND
Butyl benzyl phthalate	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND
Chrysene	ND	ND	ND
Dibenzo (a,h) anthracene	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND
3,3-Dichlorobenzidine	ND	ND	ND
Diethyl phthalate	ND	ND	ND
Dimethyl phthalate	ND	ND	ND
Di-n-butyl phthalate	ND	ND	<10
2,4-Dinitrotoluene	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND
Di-n-octyl phthalate	ND	ND	ND
1,2-Diphenylhydrazine	ND	ND	ND
Fluoranthene	ND	ND	ND
Fluorene	ND	ND	ND
Hexachlorobenzene	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND
Hexachloroethane	ND	ND	ND
Indeno (1,2,3-c,d) pyrene	ND	ND	ND
Isophorone	ND	ND	ND
Naphthalene	ND	ND	ND
Nitrobenzene	ND	ND	ND
n-Nitrosodimethylamine	ND	ND	ND
n-Nitrosodi-n-propylamine	ND	ND	ND
n-Nitrosodiphenylamine	ND	ND	ND
Phenanthrene	ND	ND	ND
Pyrene	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND

Total Base/Neutral Compounds Analyzed	0	0	0
=====			

* - Replicate Sample.

ND - Not Detected.

Table 6. Summary of Pesticide/PCB Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Designation:	MW1A	MW1A	MW1A	MW1A	MW1A	MW1A	MW1A	MW1B
Date:	4/84	8/84	10/84	1/85	4/85	7/85	10/85	4/84
USEPA Priority Pollutant								
Pesticide/PCB Compounds								
(Concentrations are in ug/L)								
Aldrin	ND	ND	ND	ND	ND	ND	ND	ND
Alpha-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Beta-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Gamma-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Delta-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Chlordane	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1016	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1221	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1232	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1242	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1248	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1254	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1260	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND	ND	ND	ND	ND
Total Pesticides/PCB Compounds	0	0	0	0	0	0	0	0

ND Not Detected.

* - Replicate Sample.

Table 6. Summary of Pesticide/PCB Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

=====								
Well Designation:	MW1B	MW1B	MW1B	MW1B	MW1B	MW1B	MW2A	MW2A
Date:	8/84	10/84	1/85	4/85	7/85	10/85	4/84	8/84
USEPA Priority Pollutant								
Pesticide/PCB Compounds								
(Concentrations are in ug/L)								

Aldrin	ND	ND	ND	ND	ND	ND	ND	ND
Alpha-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Beta-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Gamma-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Delta-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Chlordane	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1016	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1221	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1232	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1242	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1248	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1254	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1260	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND	ND	ND	ND	ND

Total Pesticides/PCB Compounds	0	0	0	0	0	0	0	0
=====								

ND Not Detected.

* - Replicate Sample.

Table 6. Summary of Pesticide/PCB Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

=====								
Well Designation:	MW2A	MW2A	MW2A	MW2A	MW2A	MW2B	MW2B	MW2B
Date:	10/84	1/85	4/85	7/85	10/85	4/84	8/84	10/84
USEPA Priority Pollutant								
Pesticide/PCB Compounds								
(Concentrations are in ug/L)								

Aldrin	ND	ND	ND	ND	ND	ND	ND	ND
Alpha-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Beta-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Gamma-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Delta-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Chlordane	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1016	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1221	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1232	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1242	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1248	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1254	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1260	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND	ND	ND	ND	ND

Total Pesticides/PCB Compounds	0	0	0	0	0	0	0	0
=====								

ND Not Detected.

* - Replicate Sample.

Table 6. Summary of Pesticide/PCB Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Designation:	MW2B	MW2B	MW2B	MW2B	MW3	MW3	MW3	MW3
Date:	1/85	4/85	7/85	10/85	4/84	8/84	10/84	1/85
USEPA Priority Pollutant								
Pesticide/PCB Compounds								
(Concentrations are in ug/L)								
Aldrin	ND	ND	ND	ND	ND	ND	ND	ND
Alpha-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Beta-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Gamma-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Delta-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Chlordane	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1016	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1221	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1232	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1242	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1248	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1254	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1260	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND	ND	ND	ND	ND
Total Pesticides/PCB Compounds	0	0	0	0	0	0	0	0

ND Not Detected.

* - Replicate Sample.

Table 6. Summary of Pesticide/PCB Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Designation:	MW3	MW3	MW4	MW4	MW4	MW4	MW4	MW4
Date:	4/85	7/85	4/84	8/84	10/84	1/85	4/85	7/85
USEPA Priority Pollutant								
Pesticide/PCB Compounds								
(Concentrations are in ug/L)								
Aldrin	ND	ND	ND	ND	ND	ND	ND	ND
Alpha-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Beta-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Gamma-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Delta-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Chlordane	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1016	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1221	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1232	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1242	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1248	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1254	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1260	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND	ND	ND	ND	ND
Total Pesticides/PCB Compounds	0	0	0	0	0	0	0	0

ND Not Detected.

* - Replicate Sample.

Table 6. Summary of Pesticide/PCB Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Designation:	MW4	MW5	MW5	MW5	MW5	MW5	MW5	MW5
Date:	10/85	4/84	8/84	10/84	1/85	4/85	7/85	10/85
USEPA Priority Pollutant								
Pesticide/PCB Compounds								
(Concentrations are in ug/L)								
Aldrin	ND	ND	ND	ND	ND	ND	ND	ND
Alpha-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Beta-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Gamma-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Delta-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Chlordane	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1016	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1221	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1232	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1242	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1248	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1254	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1260	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND	ND	ND	ND	ND
Total Pesticides/PCB Compounds	0	0	0	0	0	0	0	0

ND Not Detected.

* - Replicate Sample.

Table 6. Summary of Pesticide/PCB Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Designation:	MW6A	MW6A	MW6A	MW6A	MW6A	MW6A	MW6A	MW6B
Date:	4/84	8/84	10/84	1/85	4/85	7/85	10/85	1/85
USEPA Priority Pollutant								
Pesticide/PCB Compounds								
(Concentrations are in ug/L)								
Aldrin	ND	ND	ND	ND	ND	ND	ND	ND
Alpha-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Beta-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Gamma-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Delta-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Chlordane	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1016	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1221	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1232	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1242	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1248	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1254	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1260	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND	ND	ND	ND	ND
Total Pesticides/PCB Compounds	0	0	0	0	0	0	0	0

ND Not Detected.

* - Replicate Sample.

Table 6. Summary of Pesticide/PCB Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Designation:	MW68	MW68	MW68	MW7A	MW7A	MW7A	MW7A	MW7A
Date:	4/85	7/85	10/85	4/84	8/84	10/84	1/85	4/85
USEPA Priority Pollutant								
Pesticide/PCB Compounds								
(Concentrations are in ug/L)								
Aldrin	ND	ND	ND	ND	ND	ND	ND	ND
Alpha-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Beta-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Gamma-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Delta-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Chlordane	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1016	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1221	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1232	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1242	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1248	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1254	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1260	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND	ND	ND	ND	ND
Total Pesticides/PCB Compounds	0	0	0	0	0	0	0	0

ND Not Detected.

* - Replicate Sample.

Table 6. Summary of Pesticide/PCB Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Designation:	MW7A	MW7A	MW7B	MW7B	MW7B	MW7B	MW7B	MW7B
Date:	7/85	10/85	4/84	8/84	10/84	1/85	4/85	7/85
USEPA Priority Pollutant								
Pesticide/PCB Compounds								
(Concentrations are in ug/L)								
Aldrin	ND	ND	ND	ND	ND	ND	ND	ND
Alpha-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Beta-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Gamma-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Delta-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Chlordane	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1016	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1221	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1232	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1242	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1248	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1254	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1260	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND	ND	ND	ND	ND
Total Pesticides/PCB Compounds	0	0	0	0	0	0	0	0

ND Not Detected.

* - Replicate Sample.

Table 6. Summary of Pesticide/PCB Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Designation:	MW7B	MW8A	MW8A	MW8A	MW8A	MW8A	MW8A	MW8A
Date:	10/85	4/84	8/84	10/84	1/85	4/85	7/85	10/85
USEPA Priority Pollutant								
Pesticide/PCB Compounds								
(Concentrations are in ug/L)								
Aldrin	ND	ND	ND	ND	ND	ND	ND	ND
Alpha-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Beta-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Gamma-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Delta-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Chlordane	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1016	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1221	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1232	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1242	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1248	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1254	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1260	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND	ND	ND	ND	ND
Total Pesticides/PCB Compounds	0	0	0	0	0	0	0	0

ND Not Detected.

* - Replicate Sample.

Table 6. Summary of Pesticide/PCB Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Designation:	MW88	MW88	MW88	MW88	MW88	MW88	MW88	MW9
Date:	4/84	8/84	10/84	1/85	4/85	7/85	10/85	4/84
USEPA Priority Pollutant								
Pesticide/PCB Compounds								
(Concentrations are in ug/L)								
Aldrin	ND	ND	ND	ND	ND	ND	ND	ND
Alpha-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Beta-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Gamma-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Delta-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Chlordane	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1016	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1221	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1232	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1242	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1248	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1254	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1260	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND	ND	ND	ND	ND
Total Pesticides/PCB Compounds	0	0	0	0	0	0	0	0

ND Not Detected.

* - Replicate Sample.

Table 6. Summary of Pesticide/PCB Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Designation: Date:	MW9 8/84	MW9 10/84	MW9 1/85	MW9 4/85	MW9 7/85	MW9 10/85	MW10 4/84	MW10 8/84
USEPA Priority Pollutant Pesticide/PCB Compounds (Concentrations are in ug/L)								
Aldrin	ND	ND	ND	ND	ND	ND	ND	ND
Alpha-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Beta-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Gamma-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Delta-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Chlordane	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1016	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1221	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1232	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1242	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1248	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1254	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1260	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND	ND	ND	ND	ND
Total Pesticides/PCB Compounds	0	0	0	0	0	0	0	0

ND Not Detected.

* - Replicate Sample.

Table 6. Summary of Pesticide/PCB Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Designation:	MW10	MW10	MW10	MW10	MW10	MW11A	MW11A	MW11A
Date:	10/84	1/85	4/85	7/85	10/85	4/84	8/84	10/84
USEPA Priority Pollutant								
Pesticide/PCB Compounds								
(Concentrations are in ug/L)								
Aldrin	ND	ND	ND	ND	ND	ND	ND	ND
Alpha-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Beta-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Gamma-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Delta-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Chlordane	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1016	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1221	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1232	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1242	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1248	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1254	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1260	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND	ND	ND	ND	ND
Total Pesticides/PCB Compounds	0	0	0	0	0	0	0	0

ND Not Detected.

* - Replicate Sample.

Table 6. Summary of Pesticide/PCB Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Designation:	MW11A	MW11A	MW11A	MW11A	MW11B	MW11B	MW11B	MW11B
Date:	1/85	4/85	7/85	10/85	4/84	8/84	10/84	1/85
USEPA Priority Pollutant								
Pesticide/PCB Compounds								
(Concentrations are in ug/L)								
Aldrin	ND	ND	ND	ND	ND	ND	ND	ND
Alpha-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Beta-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Gamma-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Delta-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Chlordane	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1016	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1221	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1232	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1242	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1248	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1254	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1260	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND	ND	ND	ND	ND
Total Pesticides/PCB Compounds	0	0	0	0	0	0	0	0

ND Not Detected.

* - Replicate Sample.

Table 6. Summary of Pesticide/PCB Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Designation:	MW11B	MW11B	MW11B	MW11C	MW11C	MW11C	MW11C	MW12
Date:	4/85	7/85	10/85	1/85	4/85	7/85	10/85	1/85
USEPA Priority Pollutant								
Pesticide/PCB Compounds								
(Concentrations are in ug/L)								
Aldrin	ND	ND	ND	ND	ND	ND	ND	ND
Alpha-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Beta-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Gamma-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Delta-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Chlordane	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1016	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1221	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1232	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1242	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1248	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1254	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1260	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND	ND	ND	ND	ND
Total Pesticides/PCB Compounds	0	0	0	0	0	0	0	0

ND Not Detected.

* - Replicate Sample.

Table 6. Summary of Pesticide/PCB Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Designation:	MW12	MW12	MW12	MW13	MW13	MW13	MW13	MW14
Date:	4/85	7/85	10/85	1/85	4/85	7/85	10/85	1/85
USEPA Priority Pollutant								
Pesticide/PCB Compounds								
(Concentrations are in ug/L)								
Aldrin	ND	ND	ND	ND	ND	ND	ND	ND
Alpha-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Beta-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Gamma-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Delta-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Chlordane	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1016	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1221	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1232	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1242	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1248	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1254	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1260	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND	ND	ND	ND	ND
Total Pesticides/PCB Compounds	0	0	0	0	0	0	0	0

ND Not Detected.

* - Replicate Sample.

Table 6. Summary of Pesticide/PCB Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

=====								
Well Designation:	MW14	MW14	MW14	MW15	MW15	MW15	MW15	MW16
Date:	4/85	7/85	10/85	1/85	4/85	7/85	10/85	1/85
USEPA Priority Pollutant								
Pesticide/PCB Compounds								
(Concentrations are in ug/L)								

Aldrin	ND	ND	ND	ND	ND	ND	ND	ND
Alpha-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Beta-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Gamma-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Delta-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Chlordane	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1016	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1221	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1232	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1242	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1248	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1254	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1260	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND	ND	ND	ND	ND

Total Pesticides/PCB Compounds	0	0	0	0	0	0	0	0
=====								

ND Not Detected.

* - Replicate Sample.

Table 6. Summary of Pesticide/PCB Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

=====								
Well Designation:	MW16	MW16	MW16	MW17	MW17	MW17	MW17	MW18A
Date:	4/85	7/85	10/85	1/85	4/85	7/85	10/85	1/85
USEPA Priority Pollutant								
Pesticide/PCB Compounds								
(Concentrations are in ug/L)								

Aldrin	ND	ND	ND	ND	ND	ND	ND	ND
Alpha-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Beta-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Gamma-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Delta-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Chlordane	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1016	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1221	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1232	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1242	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1248	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1254	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1260	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND	ND	ND	ND	ND

Total Pesticides/PCB Compounds	0	0	0	0	0	0	0	0
=====								

ND Not Detected.

* - Replicate Sample.

Table 6. Summary of Pesticide/PCB Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Designation:	MW18A	MW18A	MW18A	MW18B	MW18B	MW18B	MW18B	MW19
Date:	4/85	7/85	10/85	1/85	4/85	7/85	10/85	1/85
USEPA Priority Pollutant								
Pesticide/PCB Compounds								
(Concentrations are in ug/L)								
Aldrin	ND	ND	ND	ND	ND	ND	ND	ND
Alpha-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Beta-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Gamma-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Delta-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Chlordane	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1016	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1221	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1232	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1242	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1248	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1254	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1260	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND	ND	ND	ND	ND
Total Pesticides/PCB Compounds	0	0	0	0	0	0	0	0

ND Not Detected.

* - Replicate Sample.

Table 6. Summary of Pesticide/PCB Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

=====								
Well Designation:	MW19	MW19	MW19	MW20	MW20	MW20	MW20	BLANK
Date:	4/85	7/85	10/85	1/85	4/85	7/85	10/85	10/84
USEPA Priority Pollutant								
Pesticide/PCB Compounds								
(Concentrations are in ug/L)								

Aldrin	ND	ND	ND	ND	ND	ND	ND	ND
Alpha-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Beta-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Gamma-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Delta-BHC	ND	ND	ND	ND	ND	ND	ND	ND
Chlordane	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1016	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1221	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1232	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1242	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1248	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1254	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1260	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND	ND	ND	ND	ND

Total Pesticides/PCB Compounds	0	0	0	0	0	0	0	0
=====								

ND Not Detected.

* - Replicate Sample.

Table 6. Summary of Pesticide/PCB Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

=====								
Well Designation:	BLANK	LAB	LAB	LAB	METHOD	JAR	JAR	FIELD
Date:	10/84	10/84	10/84	10/84	1/85	1/85	4/85	7/85
USEPA Priority Pollutant								
Pesticide/PCB Compounds								
(Concentrations are in ug/L)								

Aldrin	ND	ND	ND	ND	ND	ND	ND	NA
Alpha-BHC	ND	ND	ND	ND	ND	ND	ND	NA
Beta-BHC	ND	ND	ND	ND	ND	ND	ND	NA
Gamma-BHC	ND	ND	ND	ND	ND	ND	ND	NA
Delta-BHC	ND	ND	ND	ND	ND	ND	ND	NA
Chlordane	ND	ND	ND	ND	ND	ND	ND	NA
4,4'-DDT	ND	ND	ND	ND	ND	ND	ND	NA
4,4'-DDE	ND	ND	ND	ND	ND	ND	ND	NA
4,4'-DDD	ND	ND	ND	ND	ND	ND	ND	NA
Dieldrin	ND	ND	ND	ND	ND	ND	ND	NA
Endosulfan I	ND	ND	ND	ND	ND	ND	ND	NA
Endosulfan II	ND	ND	ND	ND	ND	ND	ND	NA
Endosulfan sulfate	ND	ND	ND	ND	ND	ND	ND	NA
Endrin	ND	ND	ND	ND	ND	ND	ND	NA
Endrin aldehyde	ND	ND	ND	ND	ND	ND	ND	NA
Heptachlor	ND	ND	ND	ND	ND	ND	ND	NA
Heptachlor epoxide	ND	ND	ND	ND	ND	ND	ND	NA
PCB-1016	ND	ND	ND	ND	ND	ND	ND	NA
PCB-1221	ND	ND	ND	ND	ND	ND	ND	NA
PCB-1232	ND	ND	ND	ND	ND	ND	ND	NA
PCB-1242	ND	ND	ND	ND	ND	ND	ND	NA
PCB-1248	ND	ND	ND	ND	ND	ND	ND	NA
PCB-1254	ND	ND	ND	ND	ND	ND	ND	NA
PCB-1260	ND	ND	ND	ND	ND	ND	ND	NA
Toxaphene	ND	ND	ND	ND	ND	ND	ND	NA

Total Pesticides/PCB Compounds	0	0	0	0	0	0	0	0
=====								

ND Not Detected.

* - Replicate Sample.

Table 6. Summary of Pesticide/PCB Compounds in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

=====			
Well Designation:		XF81	XF82
Date:		10/85	10/85
USEPA Priority Pollutant			
Pesticide/PCB Compounds			
(Concentrations are in ug/L)			

Aldrin	ND	ND	
Alpha-BHC	ND	ND	
Beta-BHC	ND	ND	
Gamma-BHC	ND	ND	
Delta-BHC	ND	ND	
Chlordane	ND	ND	
4,4'-DDT	ND	ND	
4,4'-DDE	ND	ND	
4,4'-DDD	ND	ND	
Dieldrin	ND	ND	
Endosulfan I	ND	ND	
Endosulfan II	ND	ND	
Endosulfan sulfate	ND	ND	
Endrin	ND	ND	
Endrin aldehyde	ND	ND	
Heptachlor	ND	ND	
Heptachlor epoxide	ND	ND	
PCB-1016	ND	ND	
PCB-1221	ND	ND	
PCB-1232	ND	ND	
PCB-1242	ND	ND	
PCB-1248	ND	ND	
PCB-1254	ND	ND	
PCB-1260	ND	ND	
Toxaphene	ND	ND	

Total Pesticides/PCB Compounds	0	0	
=====			

ND Not Detected.

* - Replicate Sample.

Table 7. Summary of Metals and Miscellaneous Parameters in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Number:	MW1A	MW1A	MW1A	MW1A	MW1A	MW1A	MW1A	MW1B
Date:	4/84	8/84	10/84	1/85	4/85	7/85	10/85	4/84
USEPA Priority Pollutant								
Metals (Concentrations are in ug/L, except where noted)								
Antimony	19	130	10,400	ND	ND	ND	ND	24
Arsenic	48	24	6	ND	ND	ND	ND	69
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	2	5	1	8	ND	ND	ND	2
Chromium	80	41	20,600	ND	ND	ND	ND	70
Copper	90	54	36	ND	ND	ND	ND	100
Lead	22	62	10	ND	ND	ND	ND	81
Mercury	ND	0.34	0.65	ND	ND	ND	ND	0.27
Nickel	70	63	112	ND	ND	ND	ND	190
Selenium	ND	ND	ND	ND	ND	ND	ND	17
Silver	2	ND	1,600	ND	ND	ND	ND	3
Thallium	5	5	ND	ND	ND	ND	<5	6
Zinc	200	248	102	90	ND	ND	40	370
Miscellaneous Parameters								
Cyanide	21	14	9	59	ND	<25	44.3	28
Total Phenols (mg/L)	0.003	ND	ND	ND	ND	<50	<50	0.009
Total Organic Carbon (mg/L)	12	19.8	14.8	17/18	9.9/7.9	NA	ND	19

* Replicate sample.

ND Not detected.

NA Not analyzed.

Table 7. Summary of Metals and Miscellaneous Parameters in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Number:	MW1B	MW1B	MW1B	MW1B	MW1B	MW2A	MW2A	MW2A
Date:	10/84	1/85	4/85	7/85	10/85	4/84	8/84	10/84
USEPA Priority Pollutant								
Metals (Concentrations are in ug/L, except where noted)								
Antimony	25,500	ND	ND	ND	ND	24	32	7,900
Arsenic	24	ND	ND	ND	ND	69	2	8
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	3	ND	ND	ND	<4	2	ND	2
Chromium	51,600	3	3	ND	ND	120	9	13,800
Copper	125	ND	ND	ND	ND	ND	10	50
Lead	28	ND	ND	ND	ND	46	16	13
Mercury	0.22	ND	ND	ND	ND	0.22	ND	0.21
Nickel	344	ND	ND	ND	<20	200	16	132
Selenium	6	6	10	9	6	ND	ND	1
Silver	940	ND	ND	ND	ND	3	ND	2,570
Thallium	ND	ND	ND	<5	ND	6	ND	ND
Zinc	376	170	60	ND	30	390	20	113
Miscellaneous Parameters								
Cyanide	ND	43	ND	<25	<25	12	15	7
Total Phenols (mg/L)	ND	ND	ND	<50	<50	0.004	0.007	ND
Total Organic Carbon (mg/L)	8.7	25/23	3.0/3.1	ND	ND	5	3	10.6

* Replicate sample.

ND Not detected.

NA Not analyzed.

Table 7. Summary of Metals and Miscellaneous Parameters in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Number:	MW2A	MW2A	MW2A	MW2A	MW2B	MW2B	MW2B	MW2B
Date:	4/85	7/85	10/85	12/86	4/84	8/84	10/84	1/85
USEPA Priority Pollutant								
Metals (Concentrations are in ug/L, except where noted)								
Antimony	ND	ND	ND	NA	20	48	15,600	ND
Arsenic	ND	ND	ND	NA	57	17	20	7
Beryllium	ND	ND	ND	NA	ND	ND	ND	ND
Cadmium	ND	ND	<4	NA	3	8	2	ND
Chromium	ND	ND	ND	NA	ND	34	36,300	ND
Copper	ND	ND	ND	NA	60	58	71	ND
Lead	ND	ND	<50	NA	116	93	34	ND
Mercury	ND	ND	ND	NA	0.24	0.42	0.26	ND
Nickel	30	ND	30	NA	110	85	325	30
Selenium	ND	<5	ND	NA	ND	ND	ND	ND
Silver	ND	ND	ND	NA	2	ND	1,020	ND
Thallium	ND	ND	ND	NA	5	4	ND	ND
Zinc	ND	ND	70	NA	270	251	335	90

Miscellaneous Parameters

Cyanide	ND	<25	<25	ND	22	ND	ND	ND
Total Phenols (mg/L)	ND	100	<50	ND	0.004	ND	ND	ND
Total Organic Carbon (mg/L)	12/12	ND	ND	5.09/5.37	15	2.9	9.2	4.2/4.5 3

* Replicate sample.
 ND Not detected.
 NA Not analyzed.

Table 7. Summary of Metals and Miscellaneous Parameters in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Number:	MW2B	MW2B	MW2B	MW3	MW3	MW3	MW3	MW3
Date:	7/85	10/85	12/86	4/84	8/84	10/84	1/85	4/85

USEPA Priority Pollutant
Metals (Concentrations are
in ug/L, except where noted)

Antimony	ND	ND	NA	14	52	14,600	ND	ND
Arsenic	ND	ND	NA	24	11	22	5	10
Beryllium	ND	ND	NA	ND	ND	ND	ND	ND
Cadmium	<8	<4	NA	2	3	4	ND	ND
Chromium	ND	ND	NA	ND	20	27,300	ND	ND
Copper	ND	ND	NA	ND	46	152	ND	ND
Lead	ND	<50	NA	14	61	64	ND	ND
Mercury	ND	ND	NA	0.22	0.56	0.48	ND	ND
Nickel	<50	30	NA	ND	43	313	ND	9
Selenium	ND	ND	NA	ND	ND	ND	ND	ND
Silver	ND	ND	NA	3	ND	2,150	ND	ND
Thallium	ND	ND	NA	6	3	ND	ND	ND
Zinc	ND	70	NA	60	162	432	ND	10

Miscellaneous Parameters

Cyanide	<25	<25	ND	5	ND	ND	31	ND
Total Phenols (mg/L)	80	<50	ND	0.009	0.004	ND	ND	0.91
Total Organic Carbon (mg/L)	ND	ND	1.9/1.9	9	12.2	23.6	9.3/8	11/11

* Replicate sample.

ND Not detected.

NA Not analyzed.

Table 7. Summary of Metals and Miscellaneous Parameters in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Number:	MW3	MW4	MW4	MW4	MW4	MW4	MW4	MW4
Date:	10/85	4/84	8/84	10/84	1/85	4/85	7/85	10/85
USEPA Priority Pollutant								
Metals (Concentrations are in ug/L, except where noted)								
Antimony	ND	15	64	13,000	ND	ND	ND	ND
Arsenic	<10	49	6	11	ND	12	<10	18
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	ND	4	3	3	ND	ND	ND	ND
Chromium	ND	ND	16	13,300	ND	ND	ND	ND
Copper	ND	ND	24	44	ND	ND	ND	ND
Lead	<50	18	39	12	ND	ND	ND	ND
Mercury	ND	ND	0.21	ND	ND	ND	ND	ND
Nickel	<5	60	47	180	20	20	<50	<20
Selenium	ND	ND	ND	ND	ND	ND	ND	ND
Silver	ND	2	ND	1,240	ND	ND	ND	<8
Thallium	ND	4	3	ND	ND	ND	ND	ND
Zinc	ND	130	428	103	40	ND	<40	<20
Miscellaneous Parameters								
Cyanide	<25	ND	ND	33	ND	ND	<25	25.9
Total Phenols (mg/L)	<50	0.017	0.029	ND	ND	ND	51	<50
Total Organic Carbon (mg/L)	ND	76	137.9	81.2	60/61	NA	ND	ND

* Replicate sample.

ND Not detected.

NA Not analyzed.

Table 7. Summary of Metals and Miscellaneous Parameters in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Number:	MW4	MW5	MW5	MW5	MW5	MW5	MW5	MW5
Date:	12/86	4/84	8/84	10/84	1/85	4/85	7/85	10/85
USEPA Priority Pollutant								
Metals (Concentrations are in ug/L, except where noted)								
Antimony	NA	13	45	11,900	ND	ND	ND	ND
Arsenic	NA	73	9	11	ND	ND	ND	<10
Beryllium	NA	ND	ND	ND	ND	ND	ND	ND
Cadmium	NA	3	9	2	8	ND	ND	ND
Chromium	NA	ND	42	8,620	ND	ND	ND	ND
Copper	NA	80	113	127	ND	ND	ND	<7
Lead	NA	155	238	92	ND	ND	<100	ND
Mercury	NA	0.24	0.39	0.31	ND	ND	ND	ND
Nickel	NA	ND	41	161	ND	ND	ND	<10
Selenium	NA	ND	ND	ND	ND	ND	ND	<5
Silver	NA	5	ND	1,030	ND	ND	ND	ND
Thallium	NA	7	7	ND	ND	ND	ND	ND
Zinc	NA	120	248	110	100	ND	ND	ND
Miscellaneous Parameters								
Cyanide	ND	ND	ND	10	ND	ND	<25	<25
Total Phenols (mg/L)	0.128	ND	0.004	ND	ND	ND	200	<50
Total Organic Carbon (mg/L)	44.7/44.1	9	40.8	10.6	7.9/7.4	5.2/5.0	ND	ND 5.6

* Replicate sample.

ND Not detected.

NA Not analyzed.

Table 7. Summary of Metals and Miscellaneous Parameters in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Number:	MW6A	MW6A	MW6A	MW6A	MW6A	MW6A	MW6B	MW6B
Date:	4/84	8/84	10/84	4/85	7/85	10/85	1/85	4/85
USEPA Priority Pollutant								
Metals (Concentrations are in ug/L, except where noted)								
Antimony	29	53	14,700	ND	ND	ND	ND	ND
Arsenic	73	15	17	76	47	49	ND	23
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	2	5	7	ND	ND	<4	ND	ND
Chromium	ND	30	51,600	ND	ND	ND	ND	ND
Copper	ND	ND	17	ND	ND	ND	ND	ND
Lead	27	16	10	ND	ND	ND	ND	ND
Mercury	6	0.31	ND	ND	ND	ND	ND	ND
Nickel	110	30	164	20	ND	ND	ND	10
Selenium	ND	ND	ND	ND	<5	<10	ND	ND
Silver	10	ND	780	ND	ND	ND	ND	ND
Thallium	30	6	ND	ND	<5	ND	ND	ND
Zinc	60	75	48	10	<20	ND	ND	30

Miscellaneous Parameters

Cyanide	ND	ND	ND	ND	<25	<25	NA	ND
Total Phenols (mg/L)	0.013	0.209	ND	0.220	200	289	NA	0.120
Total Organic Carbon (mg/L)	455	271	181	410/410	ND	ND	NA	190/190

* Replicate sample.

ND Not detected.

NA Not analyzed.

Table 7. Summary of Metals and Miscellaneous Parameters in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Number:	MW68	MW7A	MW7A	MW7A	MW7A	MW7A	MW7A	MW7A
Date:	10/85	4/84	8/84	10/84	1/85	4/85	7/85	10/85
USEPA Priority Pollutant								
Metals (Concentrations are in ug/L, except where noted)								
Antimony	ND	14	30	9,900	ND	ND	ND	ND
Arsenic	15	79	17	19	35	39	30	45
Beryllium	ND	ND	ND	ND	ND	ND	<1	ND
Cadmium	ND	11	2	ND	ND	ND	ND	<4
Chromium	ND	ND	ND	9,750	ND	ND	ND	ND
Copper	ND	ND	5	75	ND	ND	<9	ND
Lead	ND	18	14	6	ND	ND	ND	ND
Mercury	ND	ND	0.21	ND	ND	ND	ND	ND
Nickel	<20	ND	7	150	ND	ND	ND	ND
Selenium	<5	ND	ND	ND	ND	ND	ND	ND
Silver	<8	ND	ND	1,810	ND	ND	ND	ND
Thallium	ND	ND	2	ND	ND	ND	ND	ND
Zinc	<20	100	13	75	ND	ND	ND	60
Miscellaneous Parameters								
Cyanide	<25	26	ND	ND	ND	ND	<25	<25
Total Phenols (mg/L)	216	0.296	0.049	ND	0.058	ND	<50	205
Total Organic Carbon (mg/L)	ND	19	225.4	37.7	13/15	160/160	ND	ND 12.

* Replicate sample.

ND Not detected.

NA Not analyzed.

Table 7. Summary of Metals and Miscellaneous Parameters in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Number:	MW7B	MW7B	MW7B	MW7B	MW7B	MW7B	MW7B	MW7B
Date:	4/84	8/84	10/84	1/85	4/85	7/85	10/85	12/86
USEPA Priority Pollutant								
Metals (Concentrations are in ug/L, except where noted)								
Antimony	13	28	12,100	ND	ND	ND	ND	NA
Arsenic	168	110	40	ND	ND	<10	ND	NA
Beryllium	ND	ND	ND	ND	ND	<1	ND	NA
Cadmium	2	12	ND	ND	ND	ND	ND	NA
Chromium	ND	67	19,000	ND	ND	ND	ND	NA
Copper	ND	108	59	ND	ND	<9	<10	NA
Lead	27	98	20	ND	ND	ND	ND	NA
Mercury	0.37	0.69	0.21	ND	ND	ND	ND	NA
Nickel	50	92	211	ND	ND	<30	<20	NA
Selenium	ND	ND	ND	ND	ND	ND	ND	NA
Silver	2	ND	2,660	ND	ND	ND	ND	NA
Thallium	3	3	ND	ND	ND	ND	ND	NA
Zinc	120	334	121	ND	ND	ND	<20	NA
Miscellaneous Parameters								
Cyanide	6	8	ND	ND	ND	<25	<25	ND
Total Phenols (mg/L)	0.038	0.081	ND	0.082	0.330	320	164.8	0.058
Total Organic Carbon (mg/L)	55	83.4	101	160/160	54/54	ND	ND	40.6/41.0

* Replicate sample.

ND Not detected.

NA Not analyzed.

Table 7. Summary of Metals and Miscellaneous Parameters in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Number:	MW8A	MW8A	MW8A	MW8A	MW8A	MW8A	MW8A	MW8B
Date:	8/84	10/84	1/85	4/85	7/85	10/85	12/86	4/84
USEPA Priority Pollutant								
Metals (Concentrations are in ug/L, except where noted)								
Antimony	51	10,200	ND	ND	ND	ND	NA	10
Arsenic	3	5	ND	ND	12	ND	NA	30
Beryllium	ND	ND	ND	ND	ND	ND	NA	ND
Cadmium	5	ND	ND	ND	ND	ND	NA	7
Chromium	25	5,120	ND	ND	ND	ND	NA	ND
Copper	5	37	ND	ND	ND	ND	NA	80
Lead	22	34	ND	ND	<100	ND	NA	199
Mercury	ND	0.21	ND	ND	<.2	ND	NA	1.71
Nickel	10	134	ND	ND	ND	ND	NA	200
Selenium	ND	ND	ND	ND	ND	ND	NA	ND
Silver	ND	1,180	ND	ND	ND	<10	NA	6
Thallium	7	ND	ND	ND	ND	ND	NA	ND
Zinc	52	136	50	ND	<20	<40	NA	390
Miscellaneous Parameters								
Cyanide	15	ND	ND	ND	<25	<25	ND	10
Total Phenols (mg/L)	0.446	ND	ND	0.460	380	467	0.117	0.003
Total Organic Carbon (mg/L)	64.8	65.6	71/75	280/290	ND	ND	21.8/22.4	22

* Replicate sample.

ND Not detected.

NA Not analyzed.

Table 7. Summary of Metals and Miscellaneous Parameters in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

=====								
Well Number:	MW88	MW88	MW88	MW88	MW88	MW88	MW8	MW9
Date:	10/84	1/85	4/85	7/85	10/85	12/86	12/86*	4/84
USEPA Priority Pollutant								
Metals (Concentrations are in ug/L, except where noted)								

Antimony	8,500	ND	ND	ND	ND	NA	NA	30
Arsenic	14	ND	ND	<10	<10	NA	NA	55
Beryllium	ND	ND	ND	ND	ND	NA	NA	ND
Cadmium	ND	ND	ND	<10	<3	NA	NA	2
Chromium	39,500	ND	ND	ND	ND	NA	NA	ND
Copper	171	ND	ND	30	ND	NA	NA	50
Lead	148	ND	ND	<100	ND	NA	NA	29
Mercury	1.97	ND	ND	0.2	ND	NA	NA	0.39
Nickel	314	ND	ND	ND	ND	NA	NA	60
Selenium	ND	ND	ND	ND	<5	NA	NA	ND
Silver	980	ND	ND	ND	ND	NA	NA	9
Thallium	ND	ND	ND	ND	<5	NA	NA	31
Zinc	578	ND	ND	30	<40	NA	NA	90
Miscellaneous Parameters								

Cyanide	ND	100	ND	<25	<25	ND	ND	18
Total Phenols (mg/L)	ND	ND	ND	160	160	ND	0.134	0.009
Total Organic Carbon (mg/L)	31.4	20/18	300/310	ND	ND	12.3/12.0	27.6/24.1	9
=====								

* Replicate sample.

ND Not detected.

NA Not analyzed.

Table 7. Summary of Metals and Miscellaneous Parameters in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

=====								
Well Number:	MW9	MW9	MW9	MW9	MW9	MW9	MW10	MW10
Date:	10/84	1/85	4/85	7/85	10/85	12/86	4/84	8/84
USEPA Priority Pollutant								
Metals (Concentrations are								
in ug/L, except where noted)								

Antimony	44,800	ND	ND	ND	ND	NA	15	41
Arsenic	40	16	28	17	32	NA	127	32
Beryllium	ND	ND	ND	ND	ND	NA	ND	ND
Cadmium	ND	ND	ND	ND	ND	NA	3	8
Chromium	24,900	ND	ND	ND	ND	NA	110	32
Copper	192	ND	ND	ND	ND	NA	80	52
Lead	111	ND	ND	ND	<50	NA	62	104
Mercury	ND	ND	ND	ND	ND	NA	4	0.45
Nickel	380	ND	ND	ND	ND	NA	230	50
Selenium	ND	ND	ND	ND	ND	NA	ND	ND
Silver	2,800	ND	ND	ND	ND	NA	3	ND
Thallium	ND	ND	ND	ND	ND	NA	10	7
Zinc	298	ND	ND	<20	ND	NA	390	367
Miscellaneous Parameters								

Cyanide	14	35	ND	<25	27.8	ND	5	9
Total Phenols (mg/L)	ND	ND	ND	69	<50	0.432	0.004	0.008
Total Organic Carbon (mg/L)	44.1	13/12	7.3/6.8	ND	ND	8.09/8.13	32	98.9
=====								
* Replicate sample.								
ND Not detected.								
NA Not analyzed.								

Table 7. Summary of Metals and Miscellaneous Parameters in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

=====								
Well Number:	MW10	MW10	MW10	MW10	MW10	MW11A	MW11A	MW11A
Date:	1/85	4/85	7/85	10/85	12/86	4/84	8/84	10/84
USEPA Priority Pollutant								
Metals (Concentrations are in ug/L, except where noted)								

Antimony	ND	ND	ND	ND	NA	24	60	9,000
Arsenic	35	30	16	11	NA	35	26	11
Beryllium	ND	ND	ND	ND	NA	ND	ND	ND
Cadmium	ND	ND	<6	ND	NA	10	3	ND
Chromium	ND	ND	ND	ND	NA	ND	28	13,500
Copper	ND	ND	ND	ND	NA	ND	109	148
Lead	ND	ND	ND	ND	NA	35	330	353
Mercury	ND	ND	ND	ND	NA	ND	1.14	ND
Nickel	ND	ND	ND	ND	NA	ND	30	120
Selenium	ND	ND	ND	ND	NA	ND	ND	ND
Silver	ND	ND	ND	ND	NA	8	ND	1,580
Thallium	ND	ND	ND	ND	NA	7	12	ND
Zinc	40	ND	<40	<20	NA	100	320	233
Miscellaneous Parameters								

Cyanide	25	ND	<25	<25	ND	37	6	10
Total Phenols (mg/L)	ND	0.130	69	<50	0.176	0.792	0.026	ND
Total Organic Carbon (mg/L)	23/22	53/56	ND	ND	22.4/20.9	42	19.6	31.8
=====								

* Replicate sample.

ND Not detected.

NA Not analyzed.

Table 7. Summary of Metals and Miscellaneous Parameters in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

=====								
Well Number:	MW11A	MW11A	MW11A	MW11A	MW11B	MW11B	MW11B	MW11B
Date:	4/85	7/85	10/85	12/86	4/84	8/84	10/84	1/85
USEPA Priority Pollutant								
Metals (Concentrations are in ug/L, except where noted)								

Antimony	ND	ND	ND	NA	29	34	11,200	ND
Arsenic	33	33	16	NA	5	36	32	26
Beryllium	ND	ND	ND	NA	ND	ND	ND	ND
Cadmium	ND	ND	3	NA	2	12	ND	ND
Chromium	ND	ND	ND	NA	100	79	24,200	ND
Copper	ND	ND	<7	NA	70	134	119	ND
Lead	ND	ND	ND	NA	231	394	347	ND
Mercury	ND	ND	ND	NA	0.54	1.63	0.21	ND
Nickel	ND	ND	ND	NA	40	56	117	ND
Selenium	ND	ND	ND	NA	ND	ND	ND	ND
Silver	ND	ND	ND	NA	4	ND	1,090	ND
Thallium	ND	<5	ND	NA	12	15	ND	ND
Zinc	ND	ND	ND	NA	220	784	269	ND
Miscellaneous Parameters								

Cyanide	ND	<25	<25	ND	24	ND	26	33
Total Phenols (mg/L)	ND	270	<50	0.332	0.032	0.024	ND	ND
Total Organic Carbon (mg/L)	21/22	ND	ND	30.3/31.1	654	759.6	842	400/400 3
=====								

* Replicate sample.

ND Not detected.

NA Not analyzed.

Table 7. Summary of Metals and Miscellaneous Parameters in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Number:	MW11B	MW11B	MW11B	MW11C	MW11C	MW11C	MW11C	MW11C
Date:	7/85	10/85	12/86	1/85	4/85	7/85	10/85	12/86

USEPA Priority Pollutant
Metals (Concentrations are
in ug/L, except where noted)

Antimony	ND	ND	NA	ND	ND	ND	ND	NA
Arsenic	44	32	NA	19	21	14	16	NA
Beryllium	ND	ND	NA	ND	ND	ND	ND	NA
Cadmium	ND	ND	NA	ND	ND	ND	ND	NA
Chromium	ND	ND	NA	ND	ND	ND	ND	NA
Copper	ND	<7	NA	ND	ND	ND	<7	NA
Lead	ND	ND	NA	ND	ND	ND	ND	NA
Mercury	ND	ND	NA	ND	ND	ND	ND	NA
Nickel	ND	ND	NA	ND	ND	ND	<10	NA
Selenium	ND	ND	NA	ND	ND	ND	<5	NA
Silver	ND	ND	NA	ND	ND	ND	ND	NA
Thallium	ND	ND	NA	ND	ND	ND	<5	NA
Zinc	ND	ND	NA	ND	ND	ND	ND	NA

Miscellaneous Parameters

Cyanide	<25	<25	ND	ND	ND	<25	<25	ND
Total Phenols (mg/L)	190	<50	ND	ND	ND	270	70.1	0.289
Total Organic Carbon (mg/L)	ND	ND	594/588	51/52	33/32	ND	ND	9.83/10.4

* Replicate sample.
ND Not detected.
NA Not analyzed.

Table 7. Summary of Metals and Miscellaneous Parameters in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

=====								
Well Number:	MW12	MW12	MW12	MW12	MW13	MW13	MW13	MW13
Date:	4/85	7/85	10/85	12/86	1/85	4/85	7/85	10/85
USEPA Priority Pollutant								
Metals (Concentrations are								
in ug/L, except where noted)								

Antimony	ND	ND	ND	NA	ND	ND	ND	ND
Arsenic	ND	ND	<10	NA	ND	10	ND	<10
Beryllium	ND	ND	ND	NA	ND	ND	ND	ND
Cadmium	ND	ND	ND	NA	ND	ND	ND	ND
Chromium	ND	ND	ND	NA	ND	ND	ND	ND
Copper	ND	ND	<7	NA	ND	ND	ND	ND
Lead	ND	ND	ND	NA	ND	ND	ND	ND
Mercury	ND	ND	ND	NA	ND	ND	ND	ND
Nickel	ND	ND	ND	NA	ND	ND	ND	ND
Selenium	ND	ND	ND	NA	ND	ND	ND	ND
Silver	ND	ND	<10	NA	ND	ND	ND	ND
Thallium	ND	ND	NA	NA	ND	ND	ND	ND
Zinc	ND	ND	ND	NA	ND	ND	ND	ND
Miscellaneous Parameters								

Cyanide	ND	<25	<25	ND	ND	ND	<25	25
Total Phenols (mg/L)	ND	140	<50	0.110	ND	0.094	<50	560
Total Organic Carbon (mg/L)	31/31	ND	ND	27.9/23.7	110/110	120/120	ND	ND
=====								
* Replicate sample.								
ND Not detected.								
NA Not analyzed.								

Table 7. Summary of Metals and Miscellaneous Parameters in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

=====								
Well Number:	MW14	MW14	MW14	MW14	MW15	MW15	MW15	MW15
Date:	4/85	7/85	10/85	12/86	1/85	4/85	7/85	10/85
USEPA Priority Pollutant								
Metals (Concentrations are								
in ug/L, except where noted)								

Antimony	ND	ND	ND	NA	ND	ND	ND	ND
Arsenic	ND	<10	15	NA	ND	ND	<10	13
Beryllium	ND	ND	ND	NA	ND	ND	ND	ND
Cadmium	ND	ND	ND	NA	ND	10	ND	4
Chromium	ND	ND	ND	NA	ND	ND	ND	ND
Copper	ND	ND	<7	NA	ND	ND	ND	<7
Lead	ND	ND	ND	NA	ND	ND	ND	ND
Mercury	ND	ND	ND	NA	ND	ND	ND	ND
Nickel	ND	ND	<10	NA	ND	ND	ND	<10
Selenium	ND	<5	ND	NA	ND	ND	ND	5
Silver	ND	ND	ND	NA	ND	ND	ND	ND
Thallium	ND	ND	ND	NA	ND	ND	ND	ND
Zinc	ND	ND	ND	NA	ND	ND	ND	<20
Miscellaneous Parameters								

Cyanide	ND	<25	<25	ND	30	ND	<25	<25
Total Phenols (mg/L)	0.180	910	52.1	0.388	ND	ND	300	<50
Total Organic Carbon (mg/L)	390/390	ND	ND	412/412	9.7/9.8	11/11	ND	ND 5.9
=====								
* Replicate sample.								
ND Not detected.								
NA Not analyzed.								

Table 7. Summary of Metals and Miscellaneous Parameters in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

=====								
Well Number:	MW16	MW16	MW16	MW16	MW17	MW17	MW17	MW17
Date:	1/85	4/85	7/85	10/85	1/85	4/85	7/85	10/85
USEPA Priority Pollutant								
Metals (Concentrations are								
in ug/L, except where noted)								

Antimony	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	ND	ND	ND	ND	ND	ND	ND	ND
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	ND	ND	ND	ND	ND	ND	<7	ND
Chromium	ND	ND	ND	ND	ND	ND	ND	ND
Copper	ND	ND	ND	<7	ND	ND	ND	<7
Lead	ND	ND	ND	ND	ND	ND	ND	ND
Mercury	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	ND	ND	ND	ND	ND	ND	ND	10
Selenium	ND	ND	ND	ND	ND	ND	ND	ND
Silver	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	ND	ND	<5	ND	ND	ND	ND	ND
Zinc	ND	ND	ND	ND	30	40	ND	20
Miscellaneous Parameters								

Cyanide	46	ND	<25	28.3	48	ND	<25	<25
Total Phenols (mg/L)	0.073	ND	<50	<50	0.088	ND	<50	<50
Total Organic Carbon (mg/L)	17/18	25/26	ND	ND	7.4/7.8	4.2/3.9	ND	ND
=====								

* Replicate sample.

ND. Not detected.

NA. Not analyzed.

Table 7. Summary of Metals and Miscellaneous Parameters in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

=====								
Well Number:	MW18A	MW18A	MW18A	MW18A	MW18B	MW18B	MW18B	MW18B
Date:	4/85	7/85	10/85	12/86	1/85	4/85	7/85	10/85
USEPA Priority Pollutant								
Metals (Concentrations are								
in ug/L, except where noted)								

Antimony	ND	ND	ND	NA	ND	ND	ND	ND
Arsenic	ND	18	12	NA	ND	ND	0.33	ND
Beryllium	ND	ND	ND	NA	ND	ND	2	ND
Cadmium	5	ND	ND	NA	ND	ND	<10	ND
Chromium	ND	ND	ND	NA	ND	ND	<30	ND
Copper	ND	<10	ND	NA	ND	ND	120	ND
Lead	ND	ND	<50	NA	ND	ND	700	ND
Mercury	ND	<.2	ND	NA	ND	ND	6	ND
Nickel	ND	<30	ND	NA	ND	ND	60	ND
Selenium	ND	<5	ND	NA	ND	ND	ND	ND
Silver	ND	ND	ND	NA	ND	ND	ND	ND
Thallium	ND	ND	ND	NA	ND	ND	<5	ND
Zinc	ND	40	20	NA	20	20	1,600	ND
Miscellaneous Parameters								

Cyanide	ND	<25	<25	ND	400	170	580	141
Total Phenols (mg/L)	0.077	170	130	0.106	ND	ND	120	<50
Total Organic Carbon (mg/L)	NA	ND	ND	12.5/12.5	14/17	23/23	ND	ND 11.
=====								

* Replicate sample.

ND Not detected.

NA Not analyzed.

Table 7. Summary of Metals and Miscellaneous Parameters in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

Well Number:	MW19	MW19	MW19	MW19	MW19	MW20	MW20	MW20
Date:	1/85	4/85	7/85	10/85	12/86	1/85	4/85	7/85

USEPA Priority Pollutant
Metals (Concentrations are
in ug/L, except where noted)

Antimony	ND	ND	ND	ND	NA	ND	ND	ND
Arsenic	60	ND	ND	<10	NA	ND	ND	<10
Beryllium	ND	ND	<1	ND	NA	ND	ND	ND
Cadmium	ND	ND	ND	ND	NA	ND	ND	ND
Chromium	ND	ND	ND	ND	NA	ND	ND	ND
Copper	ND	ND	ND	ND	NA	ND	ND	ND
Lead	ND	ND	ND	ND	NA	ND	ND	ND
Mercury	ND	ND	ND	ND	NA	ND	ND	<.2
Nickel	ND	ND	<30	ND	NA	20	20	<30
Selenium	ND	ND	ND	ND	NA	ND	ND	ND
Silver	ND	ND	<10	<8	NA	ND	ND	ND
Thallium	ND	ND	ND	ND	NA	ND	ND	ND
Zinc	20	10	20	40	NA	ND	6	ND

Miscellaneous Parameters

Cyanide	48	ND	<25	<25	ND	730	2.700	660
Total Phenols (mg/L)	0.120	0.200	400	852	0.399	0.94	ND	60
Total Organic Carbon (mg/L)	46/47	58/58	ND	ND	45.2/46.2	13/14	12/12	ND

* Replicate sample.
ND Not detected.
NA Not analyzed.

Table 7. Summary of Metals and Miscellaneous Parameters in Ground Water, J.F. Queeny Plant, Monsanto Company, St. Louis, Missouri.

=====					
Well Number:	MW20	XFB1	XFB1	XFB2	XFB2
Date:	12/86	10/85	12/86	10/85	12/86
USEPA Priority Pollutant					
Metals (Concentrations are					
in ug/L, except where noted)					

Antimony	NA	ND	NA	ND	NA
Arsenic	NA	ND	NA	ND	NA
Beryllium	NA	ND	NA	ND	NA
Cadmium	NA	ND	NA	ND	NA
Chromium	NA	ND	NA	ND	NA
Copper	NA	ND	NA	ND	NA
Lead	NA	ND	NA	ND	NA
Mercury	NA	ND	NA	ND	NA
Nickel	NA	ND	NA	ND	NA
Selenium	NA	ND	NA	<5	NA
Silver	NA	ND	NA	ND	NA
Thallium	NA	ND	NA	ND	NA
Zinc	NA	ND	NA	20	NA
Miscellaneous Parameters					

Cyanide	22.5	<25	ND	<25	ND
Total Phenols (mg/L)	ND	<50	ND	133	0.124
Total Organic Carbon (mg/L)	13.5/12.5	ND	2.49/2.34	ND	1.4/1.5
=====					
* Replicate sample.					
ND Not detected.					
NA Not analyzed.					

Table 8. Tentative Identification of Non-Priority Pollutant Organic Compounds, J.F. Queeny Plant, St. Louis, Missouri *

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Parameter	Well Identification:																				Number of Wells where								
	1A	1B	2A	2B	3	4	5	6A	6B	7A	7B	8A	8B	9	10	11A	11B	11C	12	13	14	15	16	17	18A	18B	19	20	Compound Detected
Benzene,1-chloro-2-methyl	--	--	--	--	--	--	--	X	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2
Benzene,1-chloro-3-methyl	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
Benzene,3-methylethyl	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
1-Pentene,4,4-dimethyl	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
1,1,1,2-Tetrachloroethane	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
3-Chlorocyclohexane	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
3,3,3-Trichloro-1-propene	X	X	--	X	--	X	X	--	--	--	--	--	--	X	--	--	--	--	X	--	--	--	--	X	--	--	--	--	8
4-Chlorocyclohexanol	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
1,2-Dichlorocyclohexane	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
1-Bromo-2-chlorocyclohexane	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
1,2-Dimethylbenzene	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
1,3-Dimethylbenzene	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
1,4-Dimethylbenzene	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
Cyclohexane	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
2-(ethenyloxy)-ethanol	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
1,1-oxy-bis-Butane	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
3H-pyrazol-3-one,2,4,-dihydro-5-methyl	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	2
Cyclopentene	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	2
2-Butoxy ethanol	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	X	--	--	--	X	--	3
Benzoic acid, 3-methyl	X	X	X	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	5
Benzoic acid, 4-(1,1-dimethylethyl)	X	--	X	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	4
Dodecanoic acid	X	X	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	X	--	X	--	6
Hexadecanoic acid	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
Hexadecanoic acid, 1-methylethyl ester	--	X	--	X	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3
Hexadecanoic acid, 1-methyl ester	--	--	--	--	X	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2
9-Hexadecanoic acid	--	--	--	--	--	--	--	--	--	--	--	X	X	X	--	--	--	--	--	--	--	--	--	--	--	--	X	--	4
Hexanedioic acid,dioctylester	X	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	3

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Parameter	Well Identification:	MW																				Number of									
		1A	1B	2A	2B	3	4	5	6A	6B	7A	7B	8A	8B	9	10	11A	11B	11C	12	13	14	15	16	17	18A	18B	19	20	Wells where Compound Detected	
Benzenamine,2-chloro		X	--	X	--	X	--	--	X	--	X	X	X	--	--	--	--	--	X	--	X	--	--	--	--	X	X	--	--	11	
Benzenamine,3-chloro		--	--	--	--	X	--	--	--	--	X	X	X	X	--	X	--	--	--	X	X	--	--	--	--	X	X	X	--	X	12
Benzenamine,4-chloro		--	--	--	--	X	--	--	X	--	X	X	X	--	--	X	--	--	--	X	X	--	--	--	--	--	X	X	--	--	10
Benzenamine,2,6-dichloro		--	--	--	--	--	X	--	X	--	--	--	X	--	--	X	--	--	--	--	--	--	--	--	--	X	--	--	--	--	5
Benzenamine,2,3-dichloro		--	--	--	--	--	X	--	--	X	--	X	X	--	--	--	--	--	--	X	X	--	X	--	--	X	--	--	--	X	9
Benzenamine,3,5-dichloro		--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	X	--	--	2
Benzenamine,2-ethyl		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	1
Benzenamine,2,6-diethyl		--	--	--	--	--	X	--	--	--	X	--	X	--	--	--	--	--	--	X	X	X	X	--	--	--	--	--	X	--	8
Benzenamine		--	--	--	--	--	--	X	X	--	--	X	X	--	--	--	--	--	--	--	X	--	--	--	--	--	X	X	--	--	7
Benzenamine,4-ethoxy		--	--	--	--	--	X	--	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	X	X	--	--	6
Benzenamine,2,6-bis(1-methylethyl)		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	1
Benzenamine,N,N,3,5-tetramethyl		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	1
Methanamine,N-(1-phenyl ethylidene)		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	1
Acetamide,2-chloro-N-(2,6-diethylphenyl)-N-(methoxy methyl)		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	X	--	2
Diethyl phenol		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	1
2-Methylphenol		--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
2-ethoxyphenol		--	--	--	--	--	--	--	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	4
Benzenesulfonamide,2-methyl		--	--	--	--	--	--	--	X	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2
Benzenesulfonamide,4-methyl		--	--	--	--	--	--	--	X	X	X	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	5
Benzenesulfonamide,N-ethyl-4-methyl		--	--	--	--	--	--	--	X	X	X	--	X	--	--	--	--	--	--	--	--	--	--	--	X	X	--	--	--	--	6
Benzenesulfonamide,N-butyl-4-methyl		--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
Benzenesulfonamide,N-cyclohexyl-4-methyl		--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	2
Ethoxybenzene		--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
Benzene,1,1-sulfonyl bis(2-methyl)		--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
Benzene 1-(1,1-dimethylethyl)		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	1
2,6-Decadienoic acid		--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
Silane		--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
Decanedoic acid		--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
1-H-Furan-6-amine		--	--	--	--	--	--	--	--	--	X	--	X	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3

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	Well Identification:																				Number of Wells where Compound Detected								
Parameter	1A	1B	2A	2B	3	4	5	6A	6B	7A	7B	8A	8B	9	10	11A	11B	11C	12	13	14	15	16	17	18A	18B	19	20	
4-Chlorophenol	--	--	--	--	--	--	--	--	--	--	X	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	3
2-Chloro-4-nitrophenol	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
Cyclohexene,3(chloromethyl)	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
Decane,2,5,9-trimethyl	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
1,3-Isobenzofurandione	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	X	X	X	X	--	--	--	--	--	--	--	--	5
1H-3H-Naphtho(1,8-cd)pyran-1,3-dione	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	X	X	X	X	X	--	--	--	--	--	--	--	--	6
1H-Idene,2,3-dihydro	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
9,10-Anthracenedione	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	X	X	X	X	--	--	--	--	--	--	--	--	5
1H-Idene-1,3-(2H)-dione	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	1
1H-Idene-1-one,2-diazo-2,3-dihydro-3-phenyl	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	1
Pyridine,3-ethenyl	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	1
1-Propanone,1-phenyl	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	1
Benzo(e)cinnoline	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	1
Benzene,1,1-oxybis	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	1
Nanoic acid	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	X	--	X	3
Acetic acid, pentyl ester	X	X	--	X	--	--	--	--	--	X	X	X	X	--	--	--	--	--	--	--	X	X	--	--	--	X	--	--	10
1H-Indole,5-methoxy-2-methyl	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	1
Octamethyl cyclotetrasiloxane	X	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	2
1,1'-Biphenyl	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	2
Benzene 1,1'-oxybis	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
2-Chloronitrobenzene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	X	--	--	--	--	--	--	--	2
1-Chloro-4-nitrobenzene	--	--	--	X	--	--	--	--	--	X	X	X	--	--	--	--	--	--	--	--	X	--	--	--	X	--	--	--	6
1-Chloro-3-nitrobenzene	--	--	--	--	--	--	--	--	--	X	X	X	--	--	--	--	--	--	--	X	X	X	--	--	X	--	--	--	7
1-Chloro-2-nitrobenzene	X	--	X	--	X	--	--	--	--	X	X	X	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	7
1-methylethyl benzene	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
3H-Indole-3-one,2-(methylthio)	--	--	--	--	--	--	--	X	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2
3H-Indazol-3-one	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
3-Phenyl pyridine	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
Nonane, 2-methyl	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	2
Nonane, 2,8-dimethyl-4-methyl	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1

Page 4 of 7

	Well Identification:																				Number of Wells where								
Parameter	1A	1B	2A	2B	3	4	5	6A	6B	7A	7B	8A	8B	9	10	11A	11B	11C	12	13	14	15	16	17	18A	18B	19	20	Compound Detected
Decane, 2-methyl	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
Decane, 2,4-dimethyl	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
Decane, 3,8-dimethyl	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
Undecane, 3,8-dimethyl	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
Cyclopropane, nonyl	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
Cyclopentane, 1-pentyl-2-propyl	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
7-Hexadecane	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
2-Undecene,5-methyl	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
Phosphoric acid triethyl ester	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	1
Elemental sulfur	--	--	X	--	--	--	X	--	--	--	--	--	X	--	--	X	--	--	--	--	--	--	--	--	--	--	X	--	5
Cyclotetradecane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	1
1H-Indene-1-one,2,3-dihydro	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	X	2
Phenol,2,6-bis(1,1-dimethylethyl)-4-methyl	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	1
Decanedioic acid,bis(2-ethylhexyl)ester	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	X	--	--	--	--	--	--	--	--	2
Methanamine, N-(1-phenylethyl)io **	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	X	--	--	2
7-Chlorobenzofuran	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	X	--	--	2
1-Methylnaphthalene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	X	--	--	2
Octadecanoic acid	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	1
Isopropyl myristate	--	--	--	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2
Tosyl derivative of ethylamine	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
1-H-imidazole,4,5-dihydro	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
3-Nitro,1,2-Benzenedicarbonylic acid	X	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2
1,1-Biphenyl,2-fluoro-2-(4-methoxy-phenyl)	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	2
1-(1,1-dimethylethyl)-4-ethoxybenzene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	1
Anthraquinone-1-carboxylic acid	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	1
4-4-(1-methyl ethylidene)(bis)phenol	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
1-methyl-2-pyrrolidinone	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	2
2-phenyl-4-acetyl-5-bromo-thiazole	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
2-Cyclohexane-1-one	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
Benzothiazole	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1

Page 5 of 7

[illegible]

Page 6 of 7

[illegible]

Table 8. Tentative Identification of Non-Priority Pollutant Organic Compounds, J.F. Queeny Plant, St. Louis, Missouri *

Page 7 of 7

Parameter	Well Identification:																				Number of Wells where Compound Detected								
	1A	1B	2A	2B	3	4	5	6A	6B	7A	7B	8A	8B	9	10	11A	11B	11C	12	13	14	15	16	17	18A	18B	19	20	
Chloro N-diethyl phenyl methoxy-acetamide	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
Benzenemethanethiol	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
4-Methyl benzenesulfonamine	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
Trimethyl benzene	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
Chloronitrobenzene	--	--	--	--	--	--	--	--	--	--	X	X	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	3
Phenol,2-ethoxy	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
4-(Diethylamino)-benzaldehyde	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
Dibenzofuran	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	1
Benzeneacetic acid	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	1
Total Number of Compounds:	13	9	16	5	9	15	16	19	12	26	20	32	22	4	10	10	16	9	11	16	11	8	8	12	22	16	12	6	

NOTE: NOS = Not otherwise specified

* - These compounds have been tentatively identified by Envirodyne Engineers, Inc. of St. Louis, Missouri, and ETC of Edison, NJ. As the organic group for many of these compounds could not be agreed upon by the laboratories, this list of compounds has not been separated into the categories of volatile organics, acid extractable and base/neutral extractable compounds.

X - Tentative identification without quantification.

** - This incomplete compound name appears in the original table.

Blanks indicate not detected.

Table 9. Concentration of Tetrachloroethylene (PCE) in Soil Samples Collected in the Vicinity of the Leaking PCE Tank, J.F. Queeny Plant, Monsanto Chemical Company, St.Louis, Missouri.

Boring Number	Depth of Sample (ft)	Screening Results (ppm HNu units)	PCE Concentration (micrograms/kilogram)
A	10 - 11.5	30	Not detected
B	10 - 11.5	20	225.3
C	10 - 11.5	110	104.6
D	10 - 11.5	20+	Not detected
E	5 - 6.5	100	1,933.0
F	Not collected	---	---
G	10 - 11.5	10	Not detected
H	10 - 11.5	70	33.3

Samples were collected by ESE and analyzed by ETC.

ppm Parts per million.

Table 10. Concentration of Tetrachloroethylene (PCE) in Ground-Water Samples Collected in the Vicinity of the Leaking PCE Tank, J.F. Queeny Plant, Monsanto Chemical Company, St. Louis, Missouri.

Well Identification	PCE Concentration (micrograms/liter)
MW-A	225,832
MW-A*	859,560,000
MW-B	27,954.2
MW-C	Not detected
MW-D	Below detection limit

* Sample of free-phase liquid in bottom of well.

Samples were collected by ESE and analyzed by ETC.

Table 11. Concentrations of Alachlor and Associated Compounds in Ground-Water Samples Collected near the Lasso Production Area, J. F. Queeny Plant, Monsanto Chemical Company, St. Louis, Missouri.

Parameter	Detection Limits (mg/L)	<u>Well Designation</u>						Solubility in Water
		GM-1	GM-2	GM-3	GM-4	GM-5	MW-14	
Alachlor	3	169	162	6	ND	4	1,010	100 mg/L @ 10°C
Chlorobenzene	50	143	114	42	ND	770	409	500 mg/L @ 20°C
2,6-Diethylaniline	3	ND	ND	44	1,807	ND	23	14,000 mg/l @ 12°C
Acetyl alachlor	10	20	24	29	ND	ND	67	100 mg/L @ 20°C
CP31679	10	20	10	ND	ND	ND	ND	~ 100 mg/L @ 20°C
Unidentified high boilers	-	ND	ND	ND	1,785	2	99	-

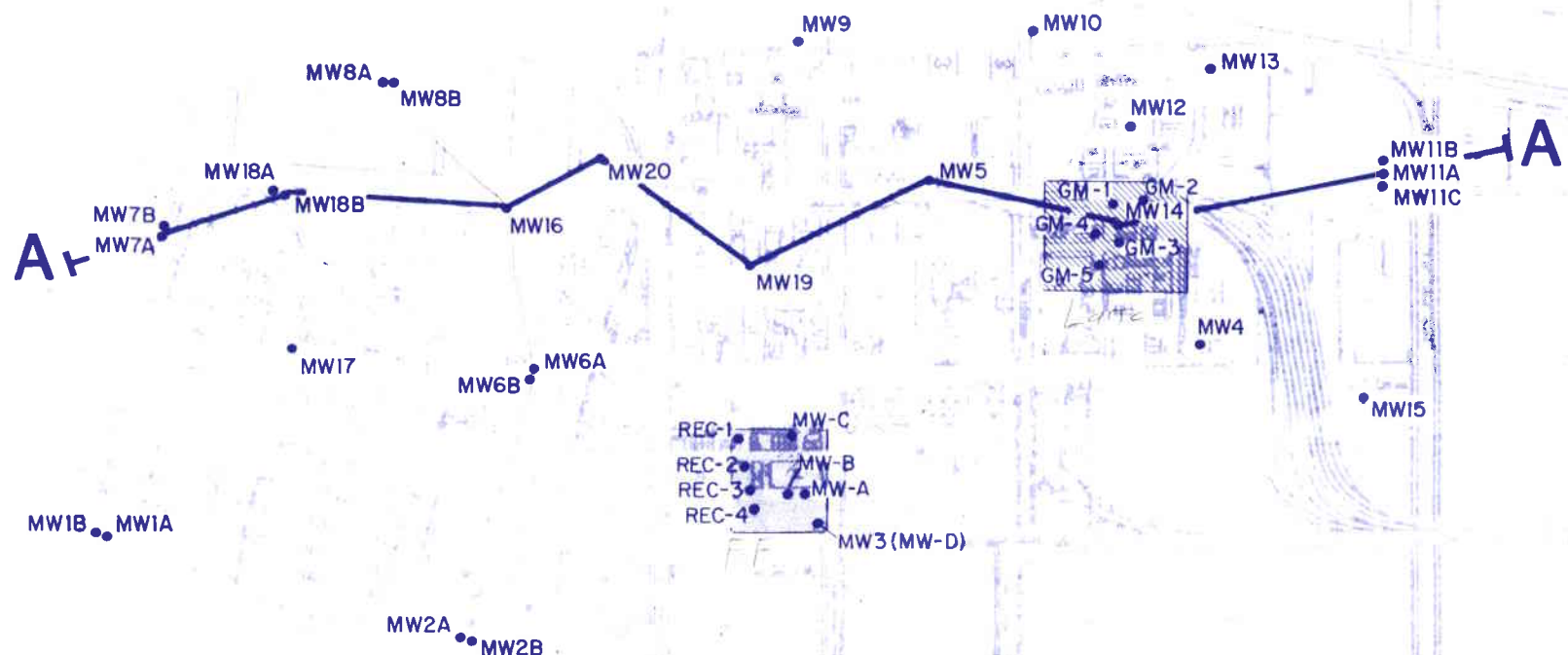
ND Not detected.

- Not determined.

mg/L Milligrams per liter.

Samples were collected by Geraghty & Miller, Inc. and analyzed by Monsanto.

NORTH



EXPLANATION

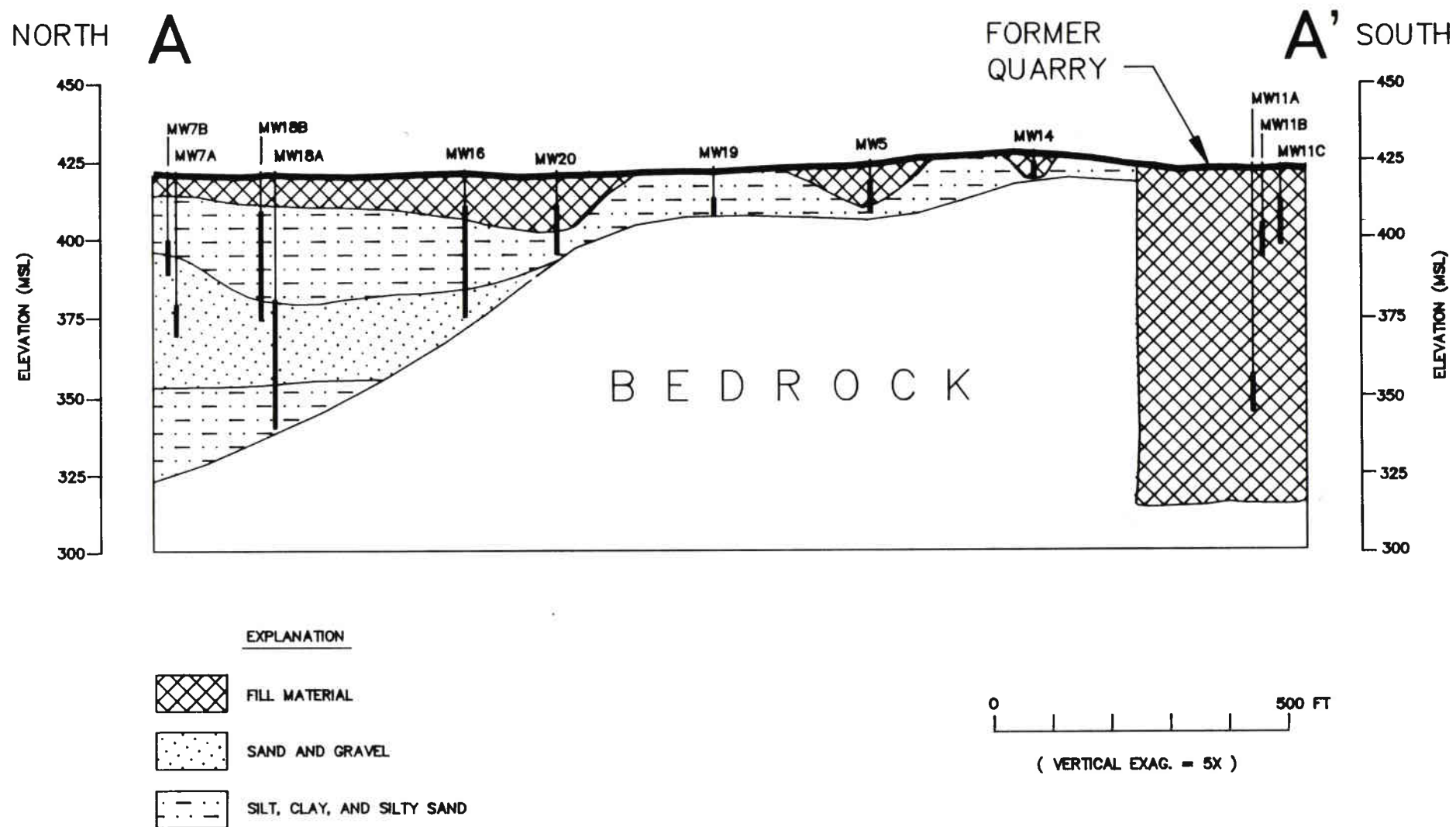
- MW5 WELL DESIGNATION AND LOCATION
- AREA OF LASSO INVESTIGATION
- AREA OF PCE INVESTIGATION

WELL LOCATIONS AND LINE OF SECTION A-A'

MONSANTO CHEMICAL COMPANY

J.F. QUEENY PLANT
St. Louis, Missouri

FIGURE 1

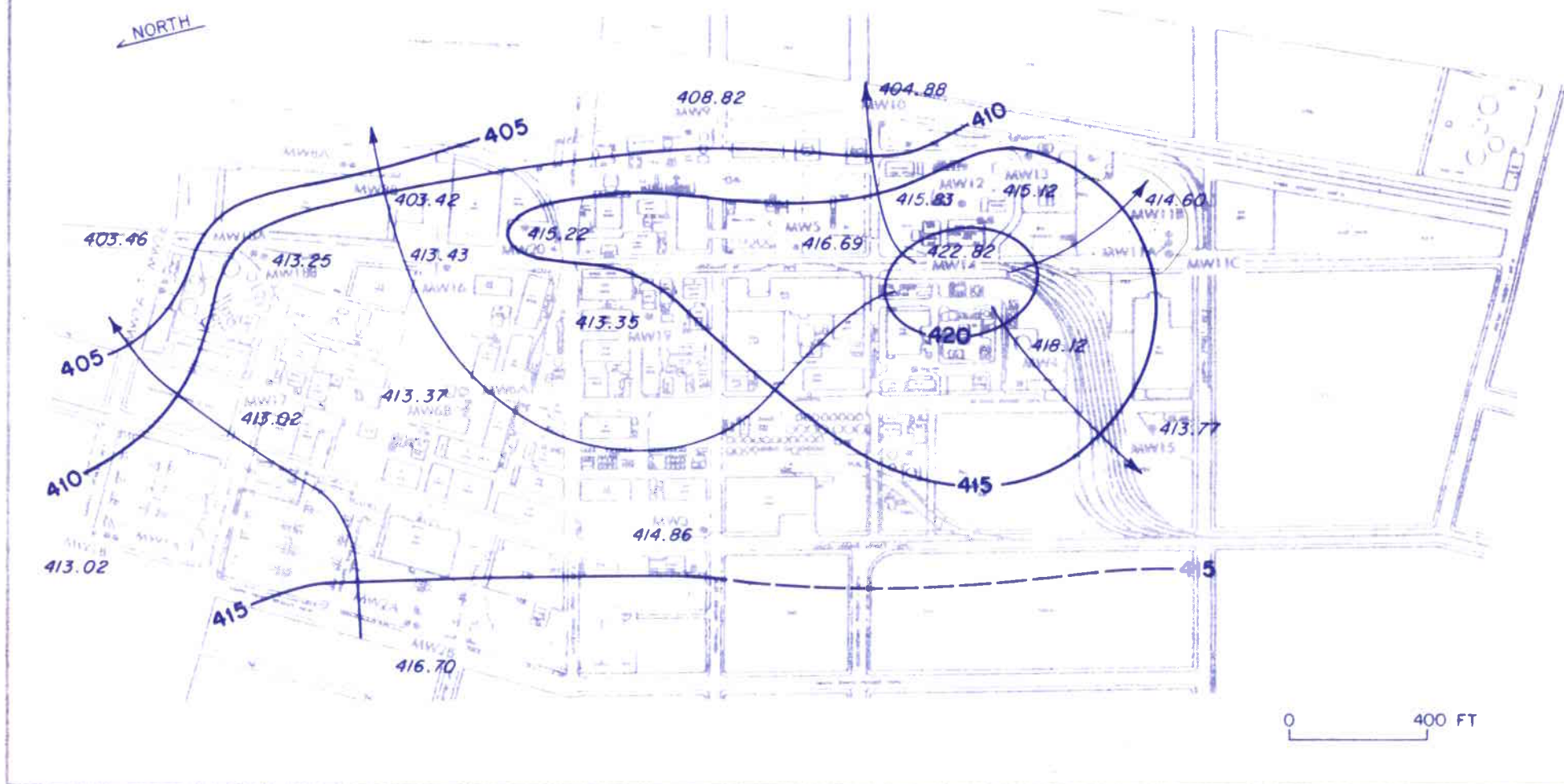


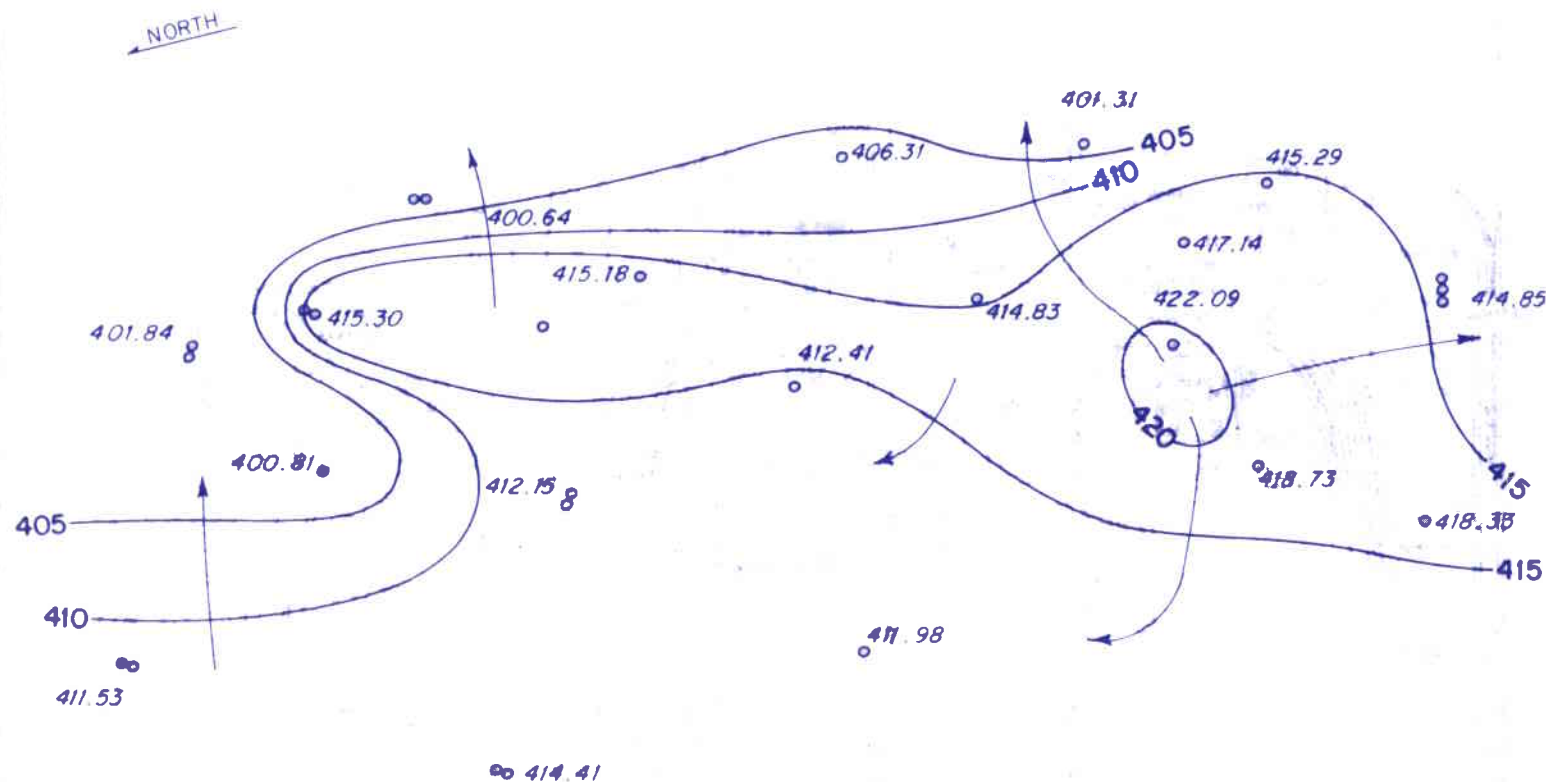
SUBJECT:

GENERALIZED HYDROGEOLOGIC CROSS SECTION

FIGURE

2





EXPLANATION

○ W-# WELL DESIGNATION AND LOCATION

414.41 WATER-LEVEL ELEVATION

410 — LINE OF WATER-LEVEL ELEVATION
IN FEET ABOVE MEAN SEA LEVEL

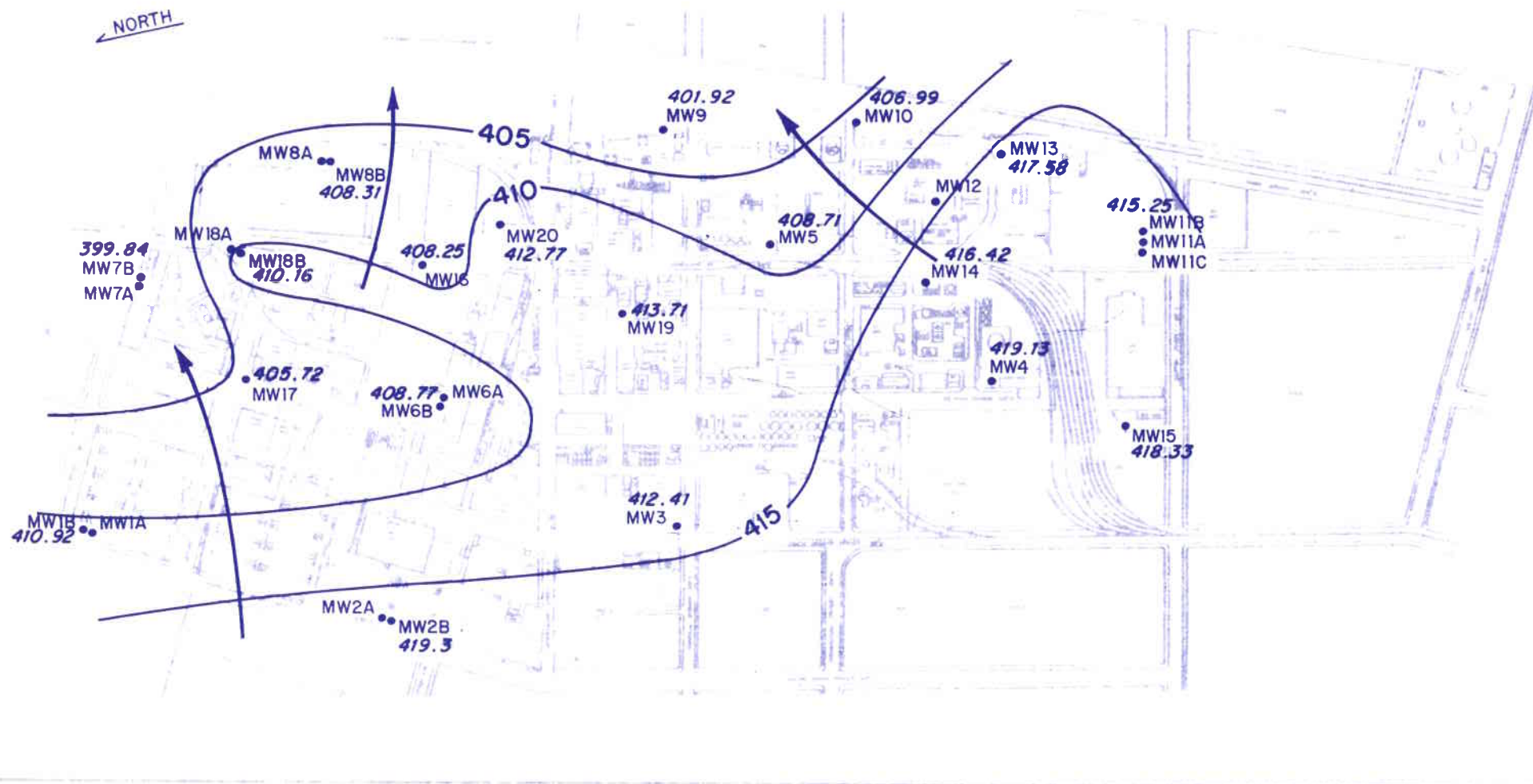
← GROUND-WATER FLOW DIRECTION

NOTE. WATER-LEVEL MEASUREMENTS MADE BY ESE

CONFIGURATION OF THE WATER TABLE
DECEMBER 1, 1986

MONSANTO CHEMICAL COMPANY

J. F. QUEENY PLANT
St. Louis, Missouri



EXPLANATION

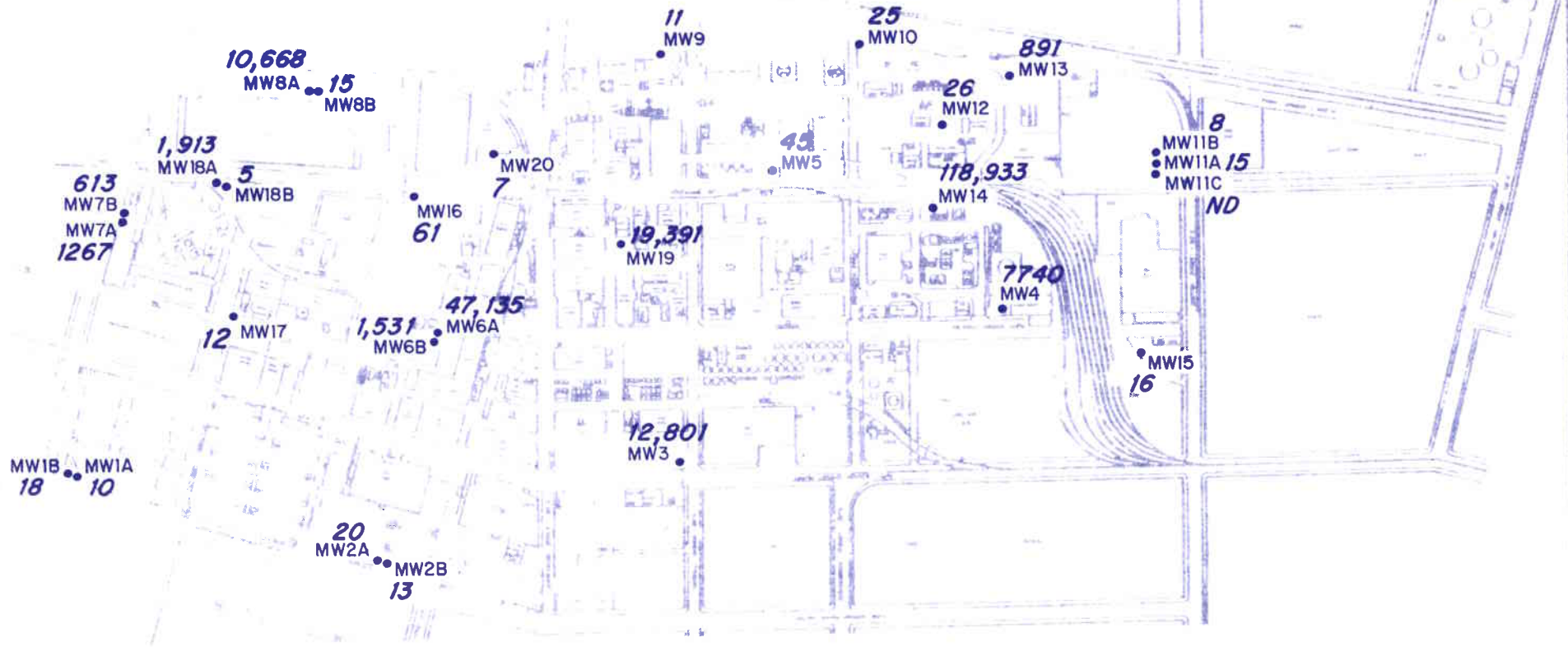
- MW5 WELL DESIGNATION AND LOCATION
- 408.71 WATER-LEVEL ELEVATION
- 405— LINE OF WATER-LEVEL ELEVATION, IN FEET ABOVE MEAN SEA LEVEL
- ← GROUND-WATER FLOW DIRECTION
- NOTE WATER-LEVEL MEASUREMENTS MADE BY ESE

CONFIGURATION OF THE WATER TABLE SEPTEMBER 23, 1987

MONSANTO CHEMICAL COMPANY

J.F. QUEENY PLANT
St. Louis, Missouri

NORTH



EXPLANATION

● MW5 WELL DESIGNATION AND LOCATION

25 MEAN TOTAL VOLATILE ORGANIC COMPOUNDS,
MICROGRAMS PER LITER

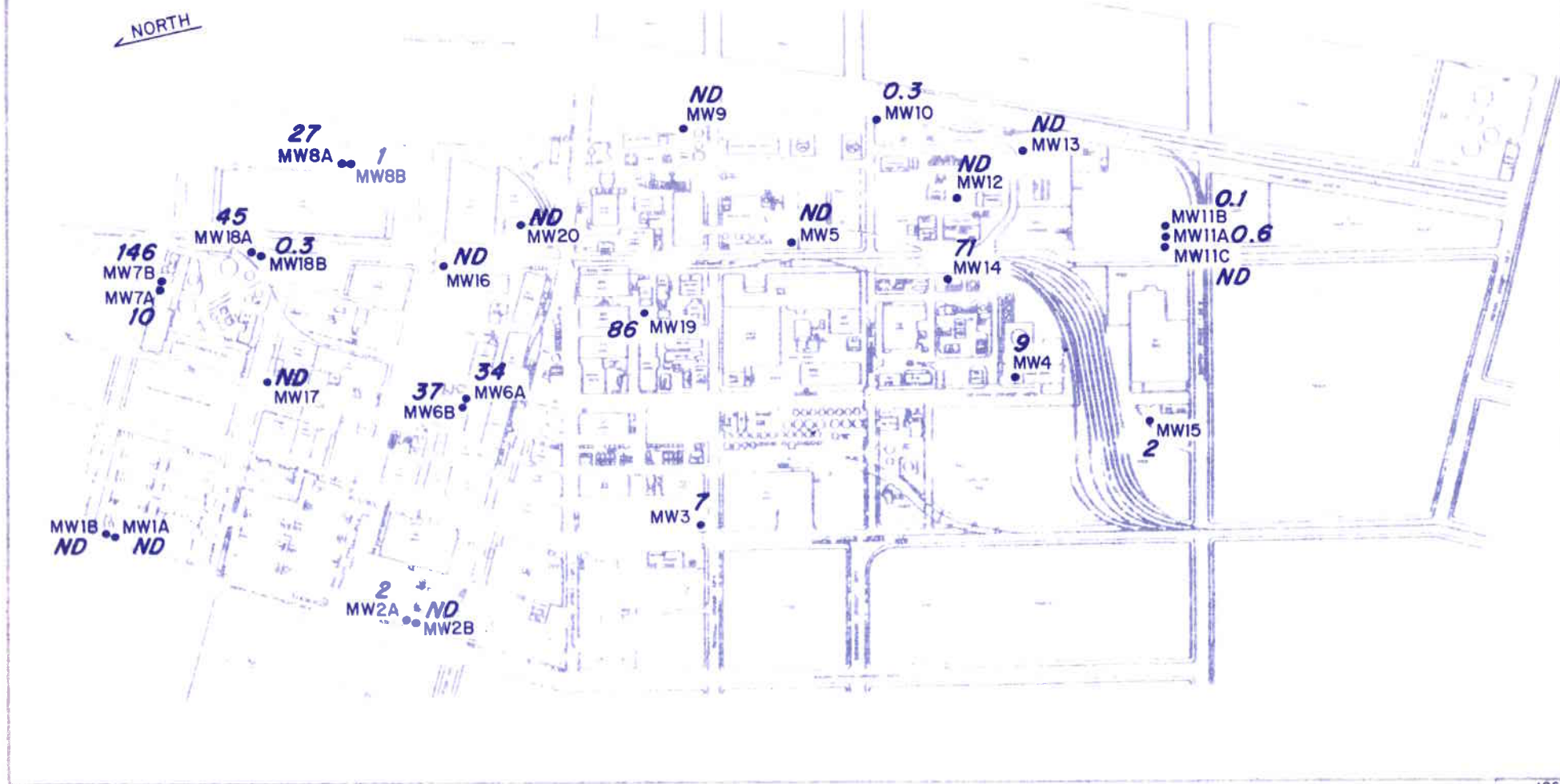
ND NOT DETECTED

DISTRIBUTION OF MEAN TOTAL VOLATILE ORGANIC COMPOUNDS IN GROUND WATER

MONSANTO CHEMICAL COMPANY

J.F. QUEENY PLANT
St. Louis, Missouri

FIGURE 6



EXPLANATION

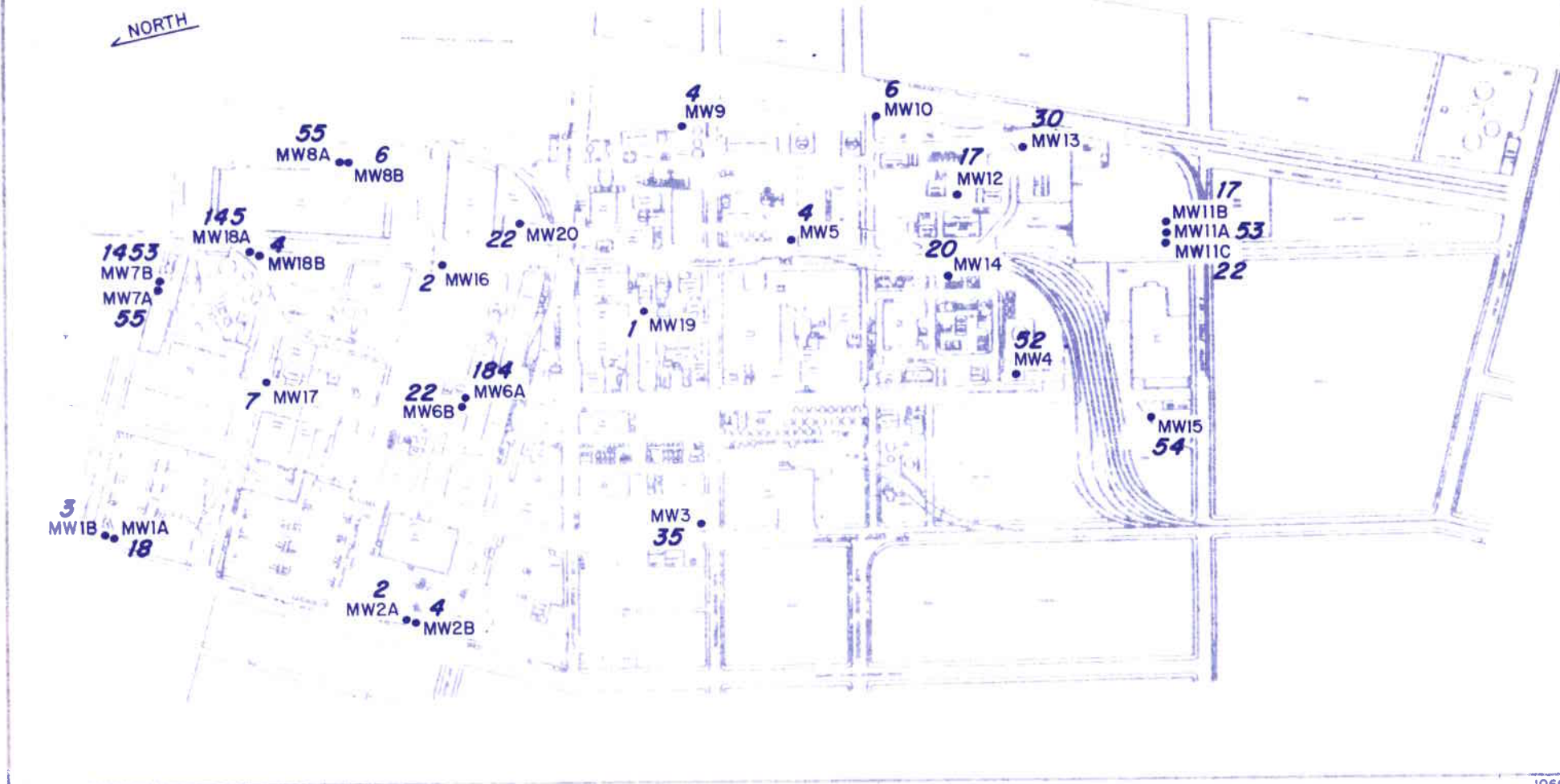
- MW5 WELL DESIGNATION AND LOCATION
- 6.5 MEAN TOTAL ACID EXTRACTABLE ORGANIC COMPOUNDS, MICROGRAMS PER LITER
- ND NOT DETECTED

DISTRIBUTION OF MEAN TOTAL ACID EXTRACTABLE ORGANIC COMPOUNDS IN GROUND WATER

MONSANTO CHEMICAL COMPANY

J.F. QUEENY PLANT
St. Louis, Missouri

FIGURE 7



EXPLANATION

- MW5 WELL DESIGNATION AND LOCATION
- 4.4 MEAN TOTAL BASE/NEUTRAL EXTRACTABLE ORGANIC COMPOUNDS, MICROGRAMS PER LITER

DISTRIBUTION OF MEAN TOTAL BASE/NEUTRAL EXTRACTABLE ORGANIC COMPOUNDS IN GROUND WATER

MONSANTO CHEMICAL COMPANY

J.F. QUEENY PLANT
St. Louis, Missouri

FIGURE 8



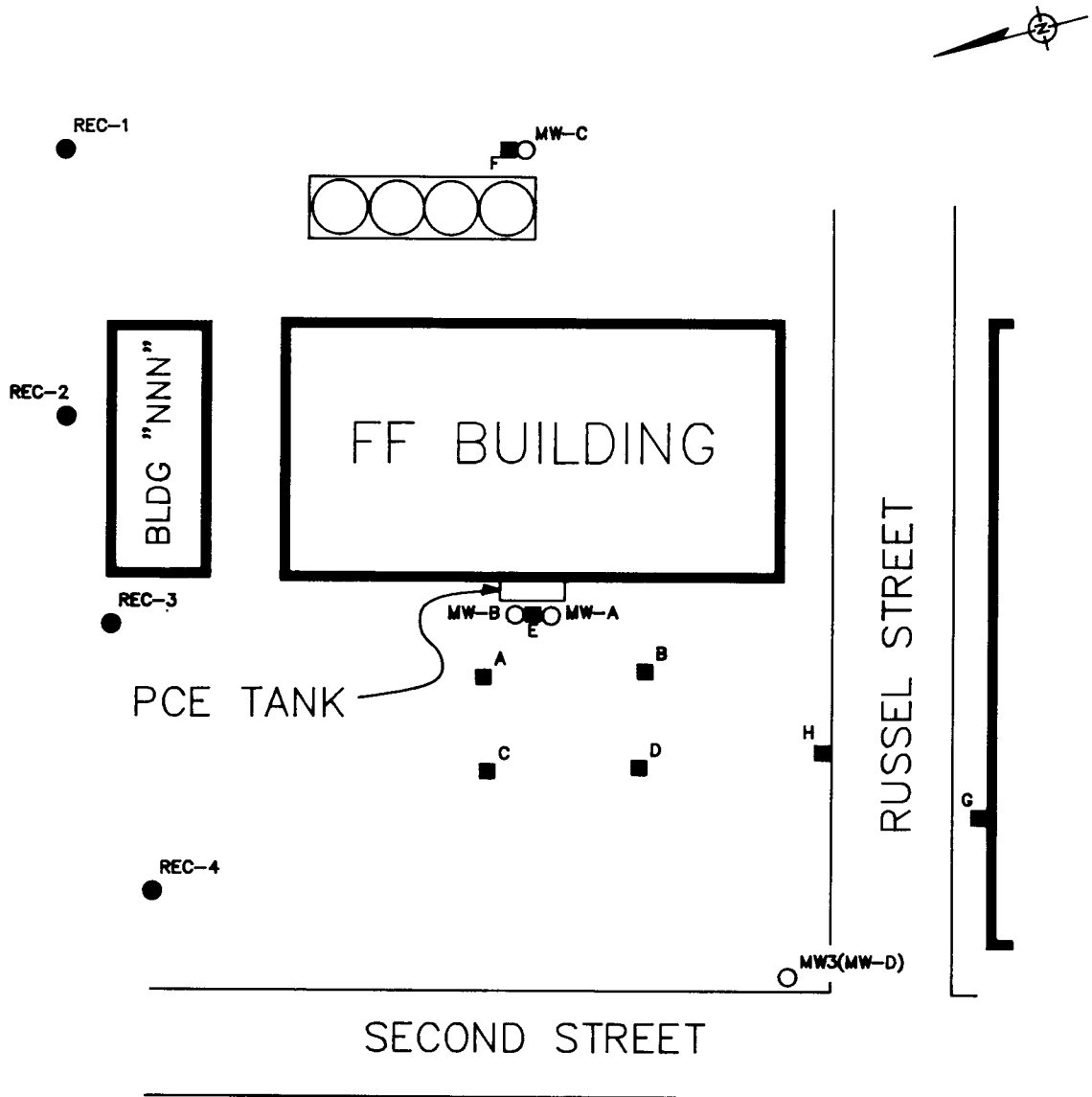
**GERAGHTY
& MILLER, INC.**
Ground-Water Consultants

COMPILED BY:	L. Musker
PREPARED BY:	G. Schaffner
PROJECT NO.:	D. Colton

FILE NO.:	N308QU3-1060
C.F. NAME:	MONST-QB

SCALE:	shown
DATE:	3-88

PREPARED FOR:	MONSANTO CHEMICAL COMPANY J.F. Queeny Plant/St. Louis, Mo.
---------------	---



EXPLANATION

- REC-4 BROTCKE ENGINEERING RECOVERY WELL
- MW-A ESE MONITORING WELL
- C ESE SOIL BORING

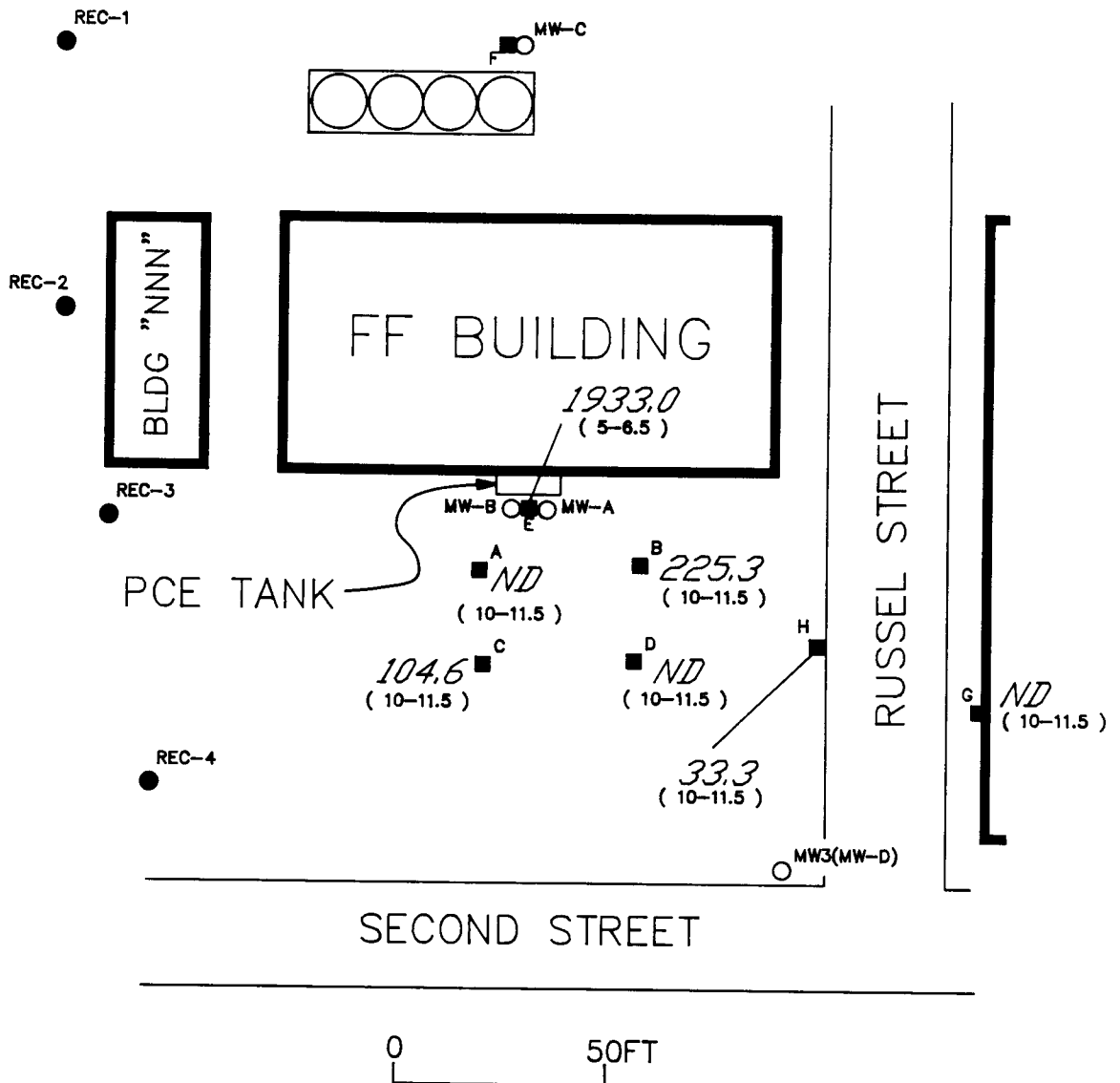
0 50FT

SUBJECT:

SOIL BORING AND MONITORING WELL LOCATIONS IN THE
VICINITY OF FF BUILDING

FIGURE

9



EXPLANATION

- | | | | |
|---------|-----------------------------------|-------------|--|
| ● REC-4 | BROTCKE ENGINEERING RECOVERY WELL | 33.3 | CONCENTRATION OF PCE IN SOIL (MICROGRAMS PER KILOGRAM) |
| ○ MW-A | ESE MONITORING WELL | (10-11.5) | DEPTH OF SOIL SAMPLE |
| ■ C | ESE SOIL BORING | ND | NONE DETECTED |

SUBJECT:

CONCENTRATION OF PCE IN SOIL

FIGURE
10



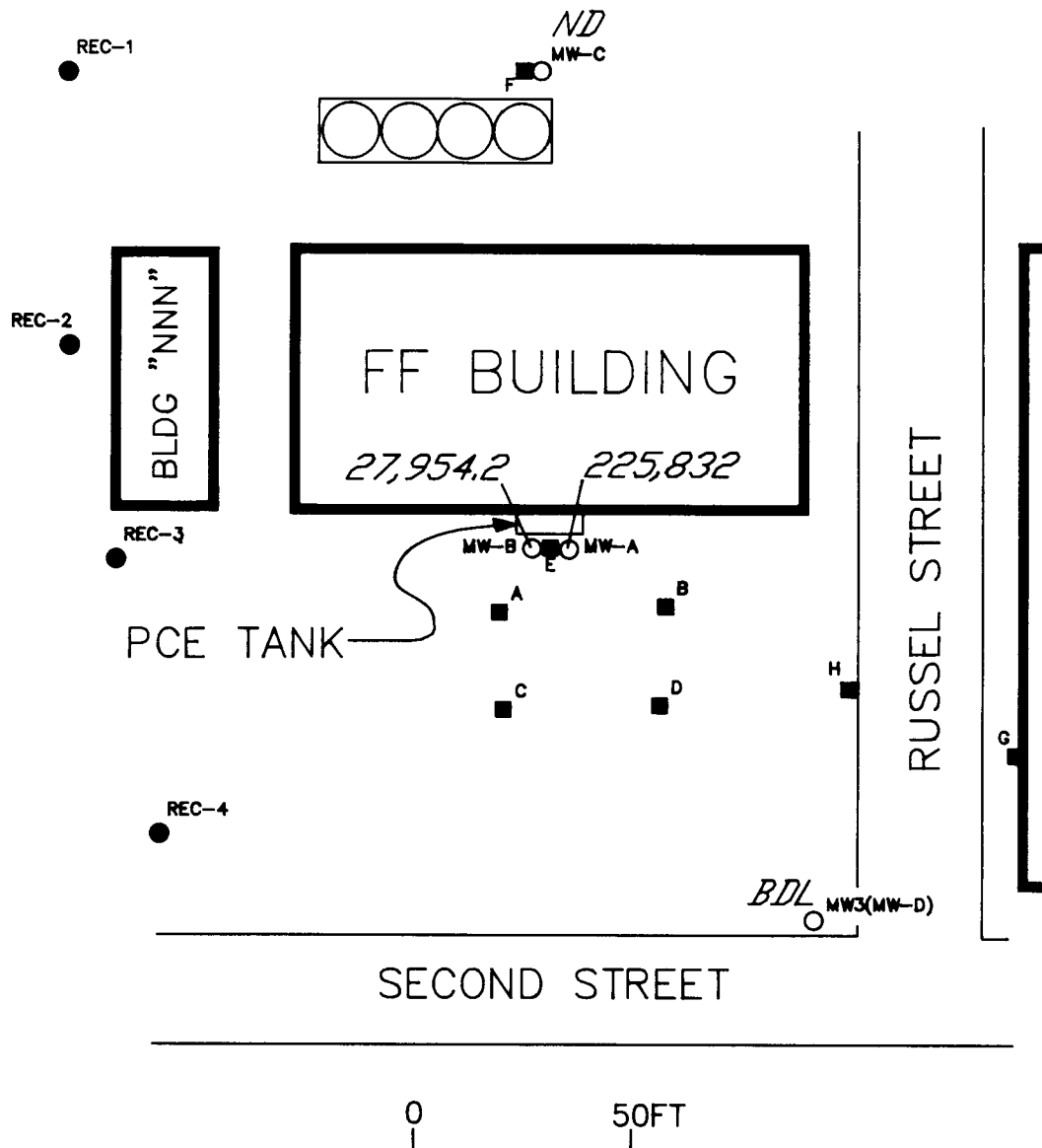
**GERAGHTY
& MILLER, INC.**
Ground-Water Consultants

COMPILED BY: L. Musker
PREPARED BY: G. Schaffner
PROJECT USER: D. Colton

FILE INDEX: N308QU3-1060
C.F. NAME: PCE-CONC

SCALE: shown
DATE: 3-88

PREPARED FOR:
MONSANTO CHEMICAL COMPANY
J.F. Queeny Plant/St. Louis, Mo.



EXPLANATION

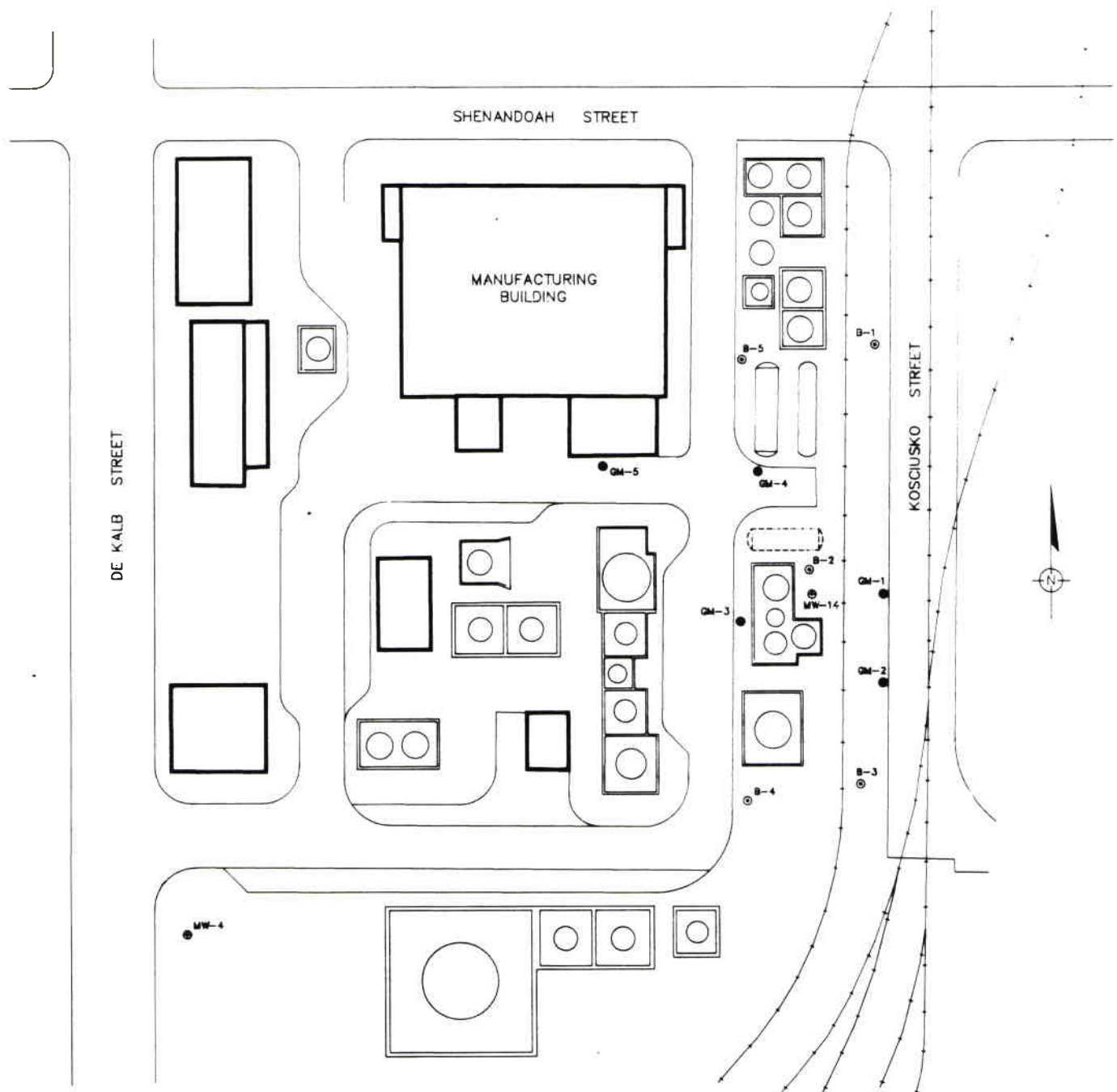
- | | | | |
|---------|-----------------------------------|---------|---|
| ● REC-4 | BROTCHE ENGINEERING RECOVERY WELL | 225,832 | CONCENTRATIONS OF PCE IN GROUND WATER (MICROGRAMS PER LITER) |
| ○ MW-A | ESE MONITORING WELL | ND | NONE DETECTED |
| ■ C | ESE SOIL BORING | BDL | BELOW DETECTION LIMIT |

SUBJECT:

CONCENTRATION OF PCE IN GROUND WATER

FIGURE

11



EXPLANATION

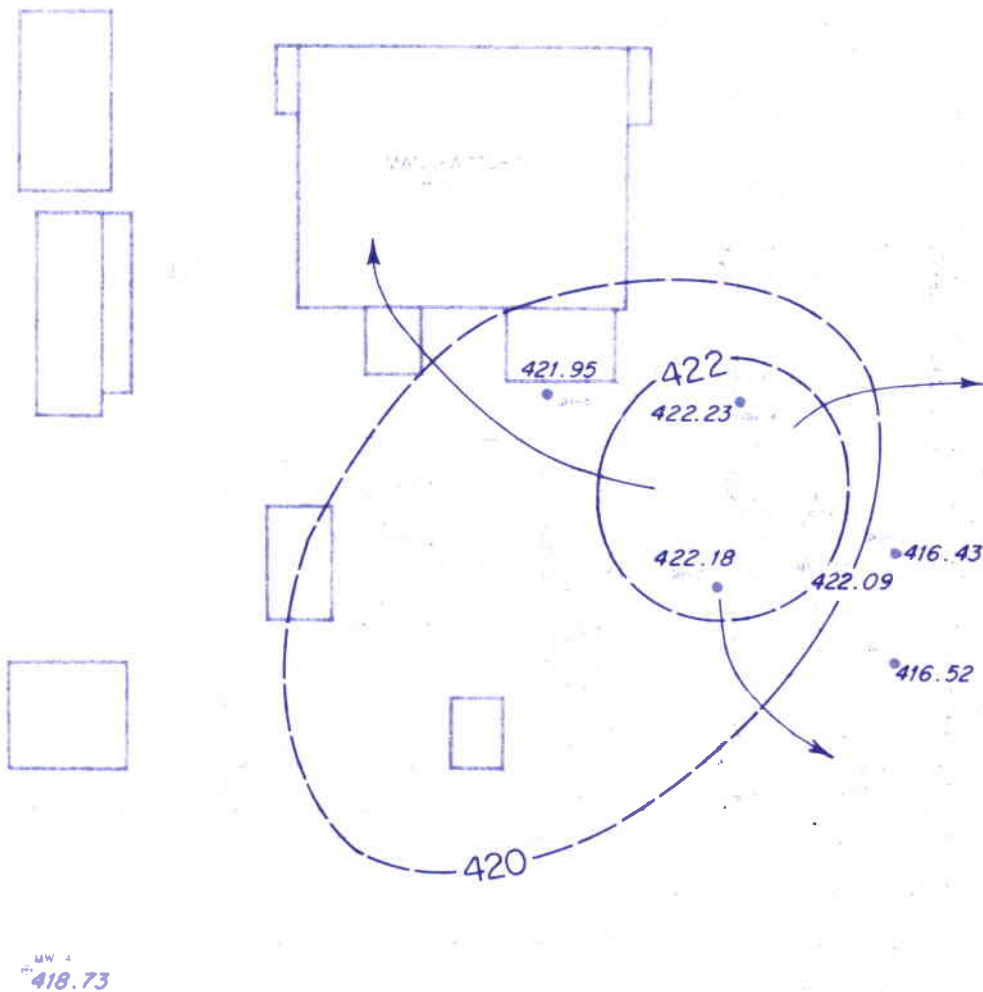
- NEW MONITORING WELL LOCATION (INSTALLED 11/86)
- ⊙ NEW SOIL BORING LOCATION (INSTALLED 11/86)
- EXISTING MONITORING WELL

SUBJECT:

SOIL BORING AND MONITORING WELL LOCATIONS IN THE VICINITY OF THE LASSO PRODUCTION AREA

FIGURE

12



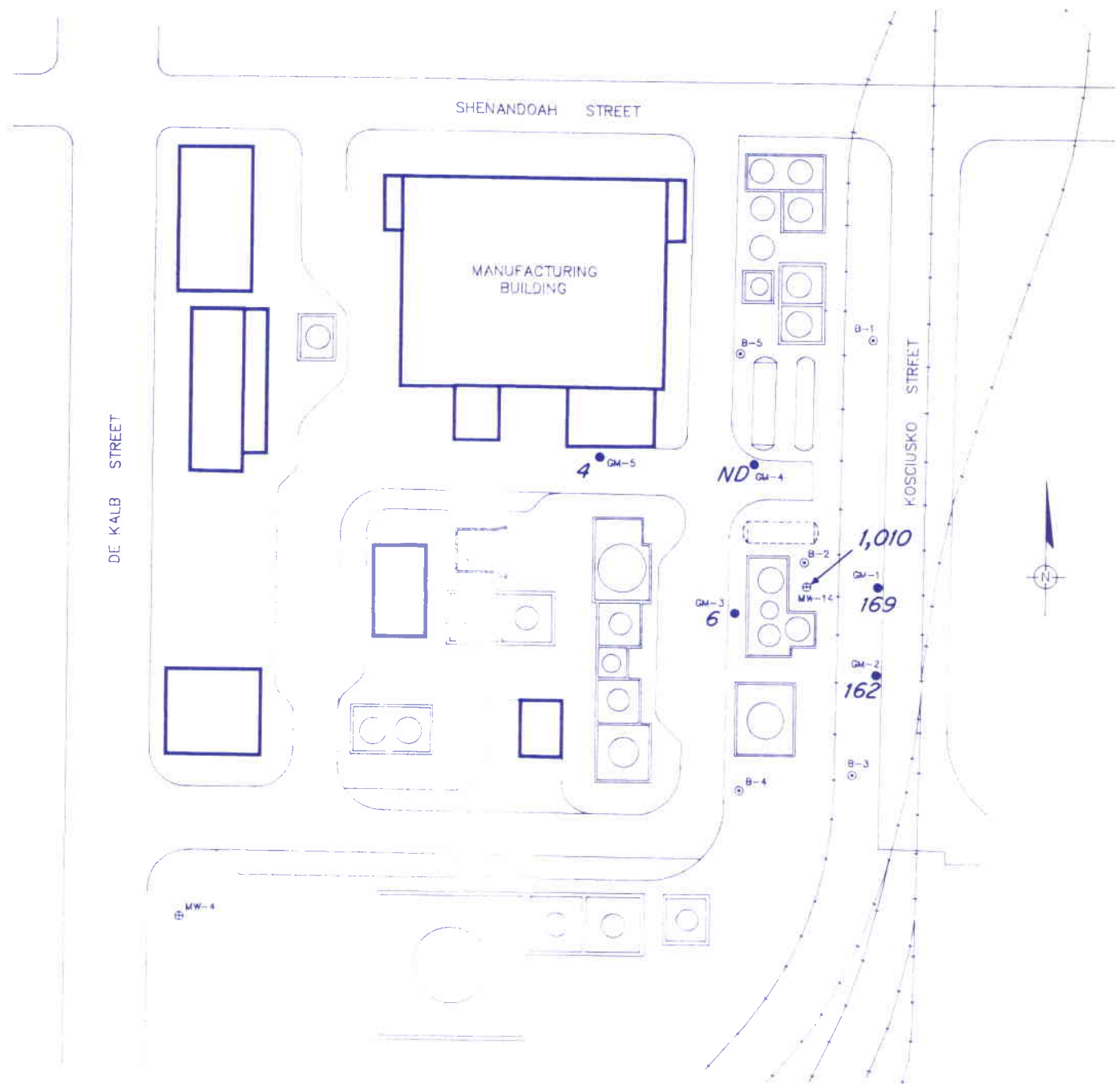
- MONITORING WELL LOCATION
- MONITORING WELL LOCATION
- MONITORING WELL LOCATION

-420- LINE OF EQUAL WATER-LEVEL ELEVATION, IN FEET ABOVE MSL (DASHED WHERE INFERRED)

← GROUND-WATER FLOW DIRECTION

418.73 WATER-LEVEL ELEVATION

CONFIGURATION OF THE WATER TABLE IN THE VICINITY OF THE LASSO
 PRODUCTION AREA - DECEMBER 1, 1986



EXPLANATION

- NEW MONITORING WELL LOCATION
- ⊙ NEW SOIL BORING LOCATION
- ⊕ EXISTING MONITORING WELL

162 CONCENTRATION OF ALACHLOR (ppm)

0 50 FEET

SUBJECT:

**DISTRIBUTION OF ALACHLOR IN THE VICINITY OF THE LASSO
PRODUCTION AREA - DECEMBER 1986**

FIGURE

14

DE KALB STREET

SHENANDOAH STREET

KOSCIUSKO STREET

MANUFACTURING BUILDING

774

1,808

121

352

1,509

310



EXPLANATION

- NEW MONITORING WELL LOCATION
- NEW SOIL BORING LOCATION
- EXISTING MONITORING WELL

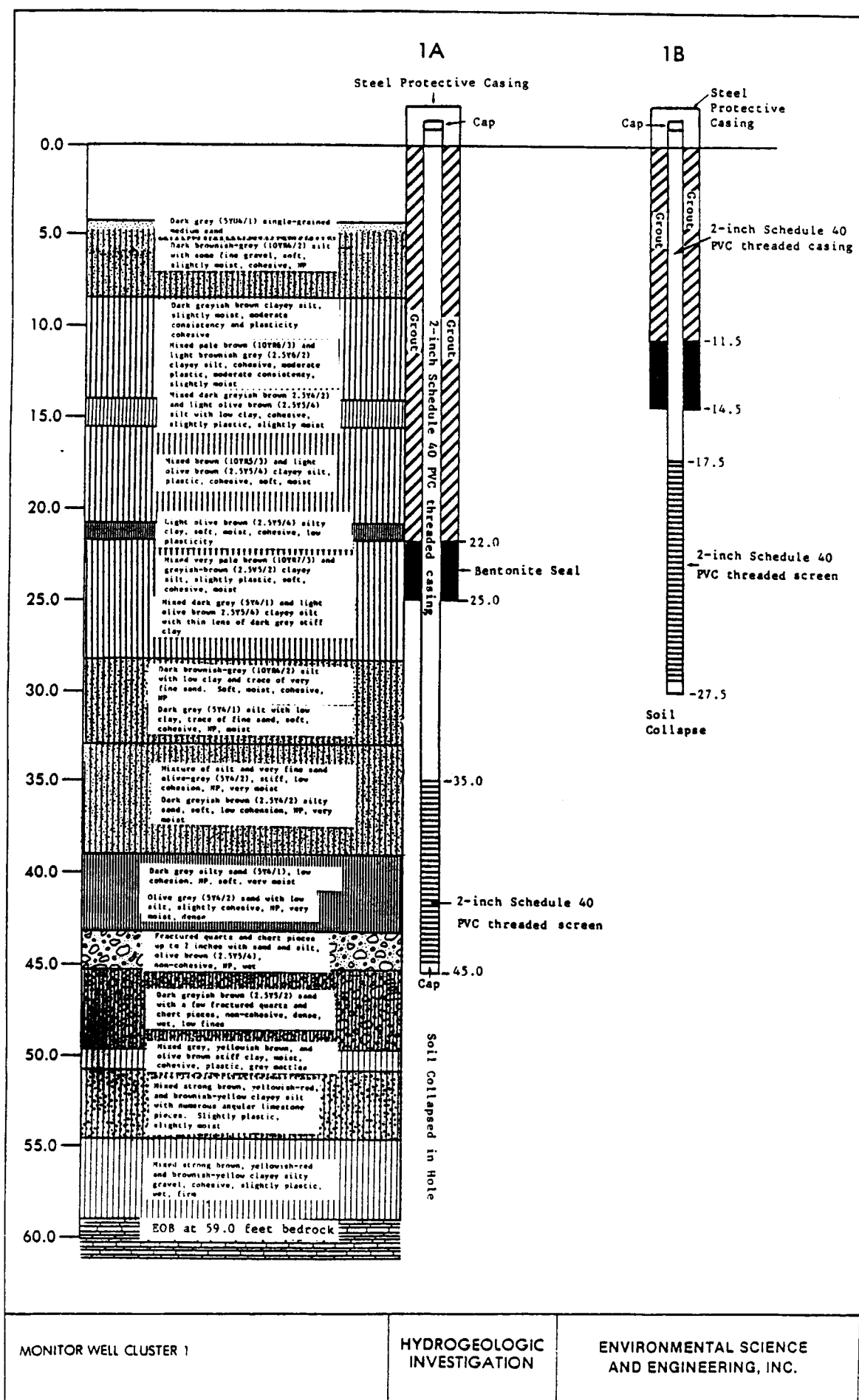
310 CONCENTRATION OF COMPOUNDS ASSOCIATED WITH LASSO PRODUCTION (ppm)

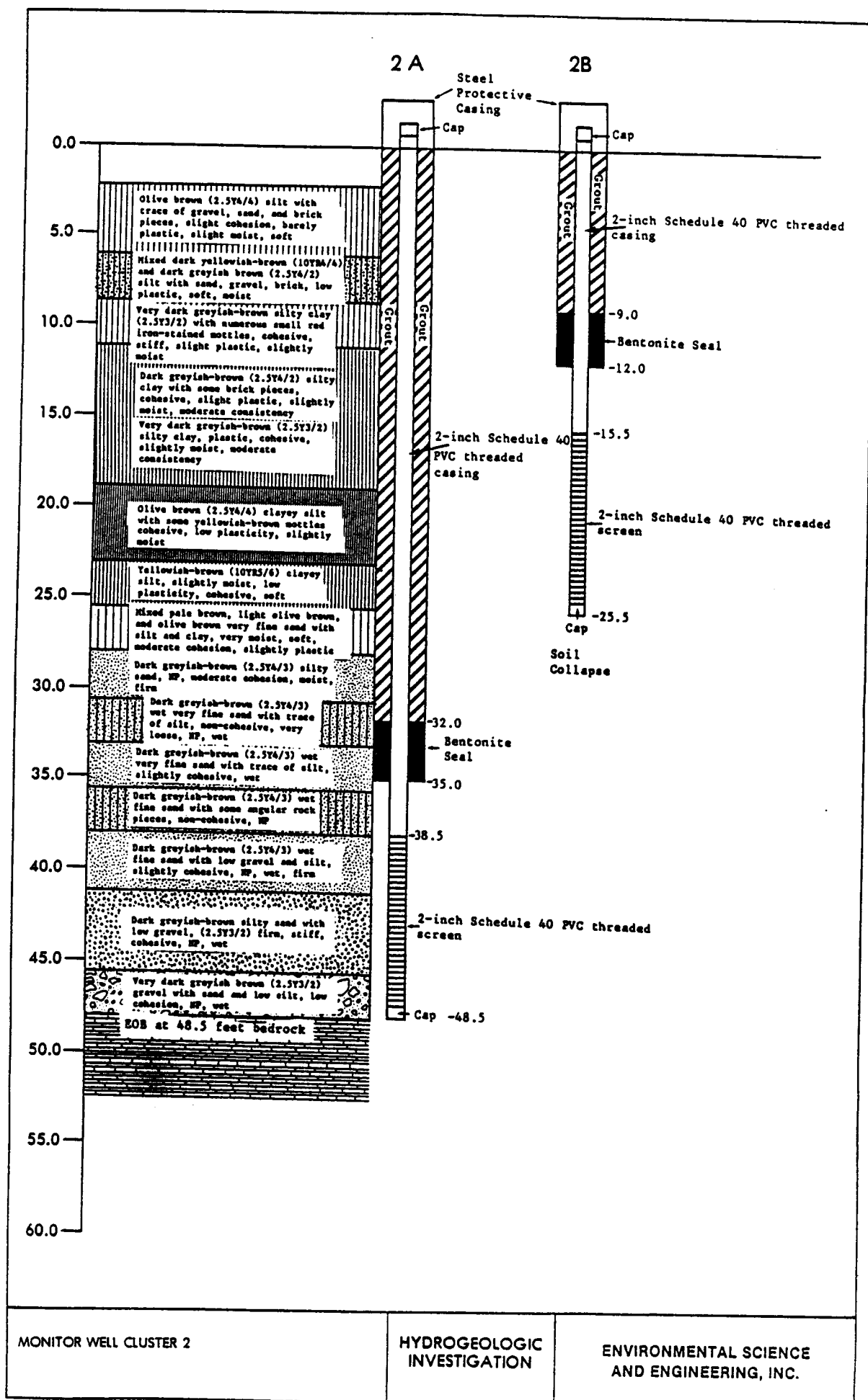
0 50 FEET

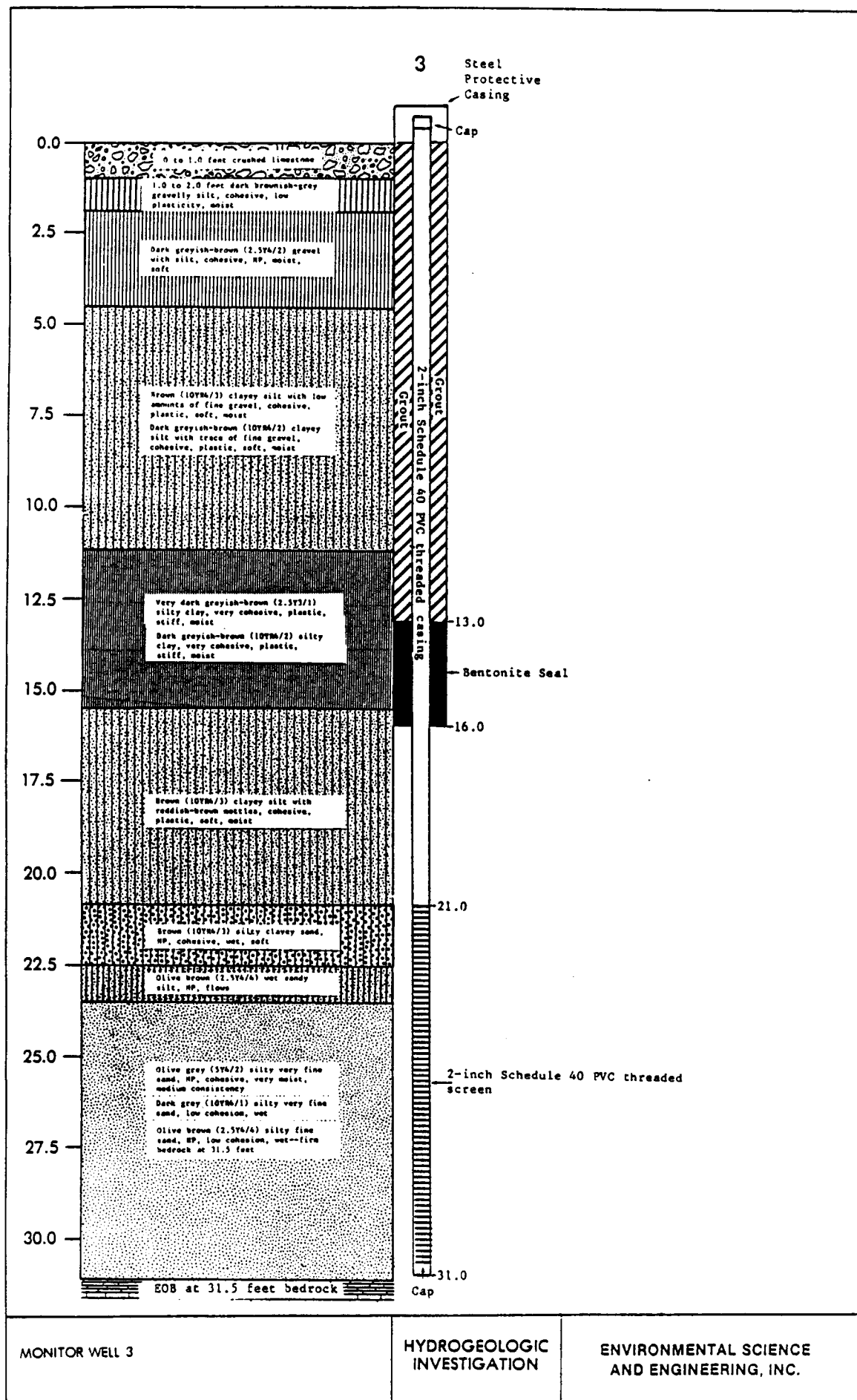
SUBJECT:

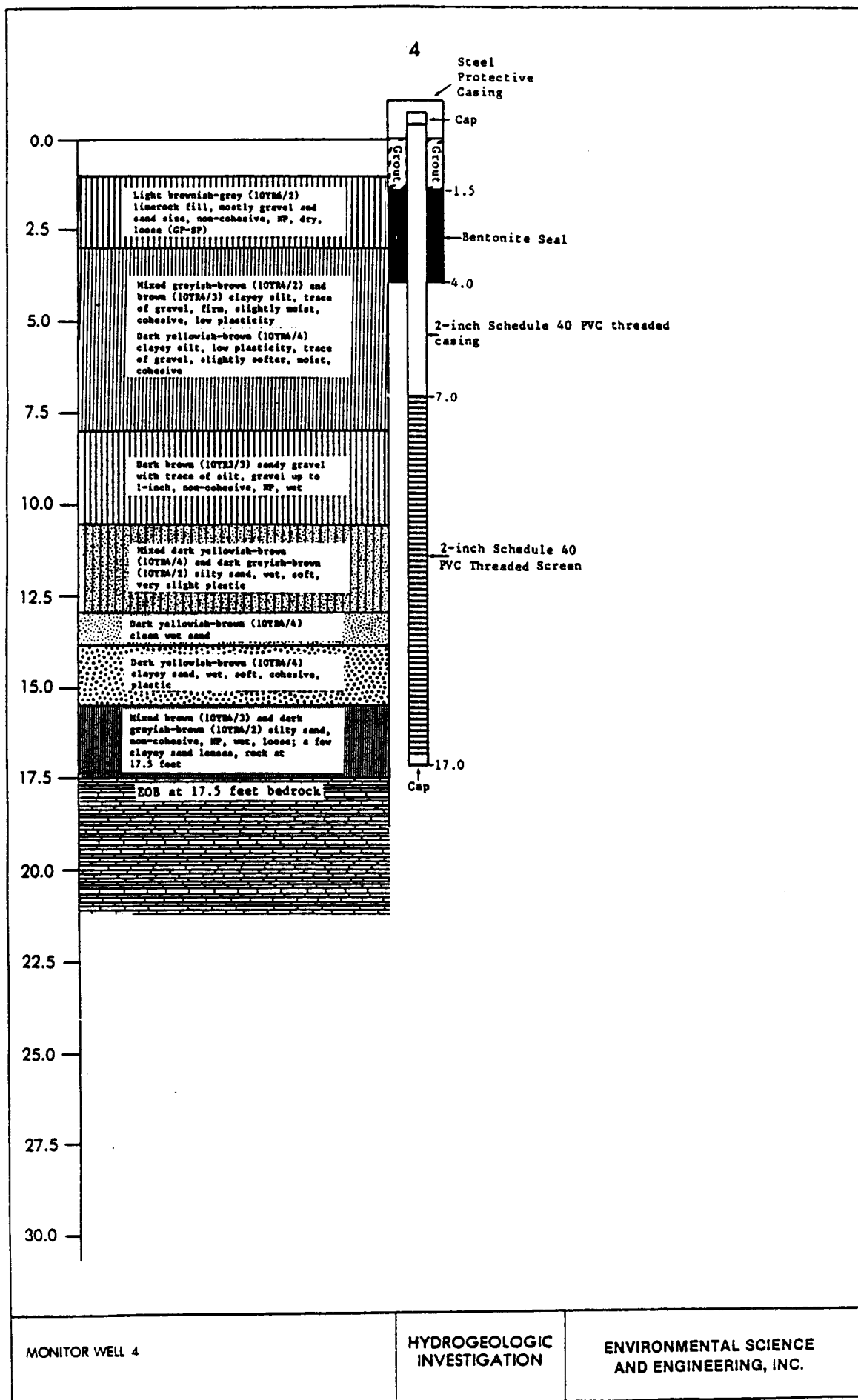
DISTRIBUTION OF COMPOUNDS ASSOCIATED WITH LASSO PRODUCTION-DECEMBER 1986

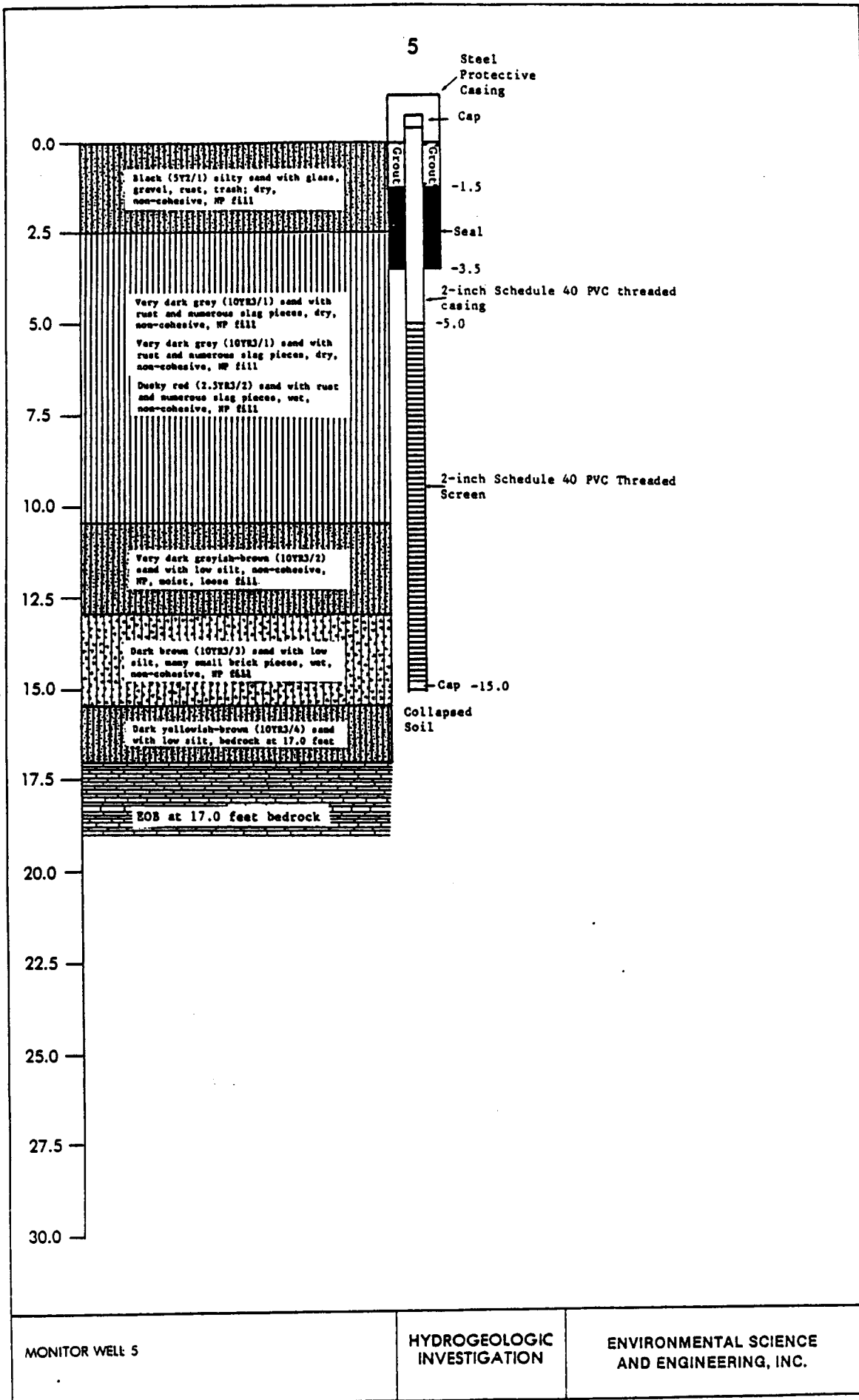
FIGURE
15

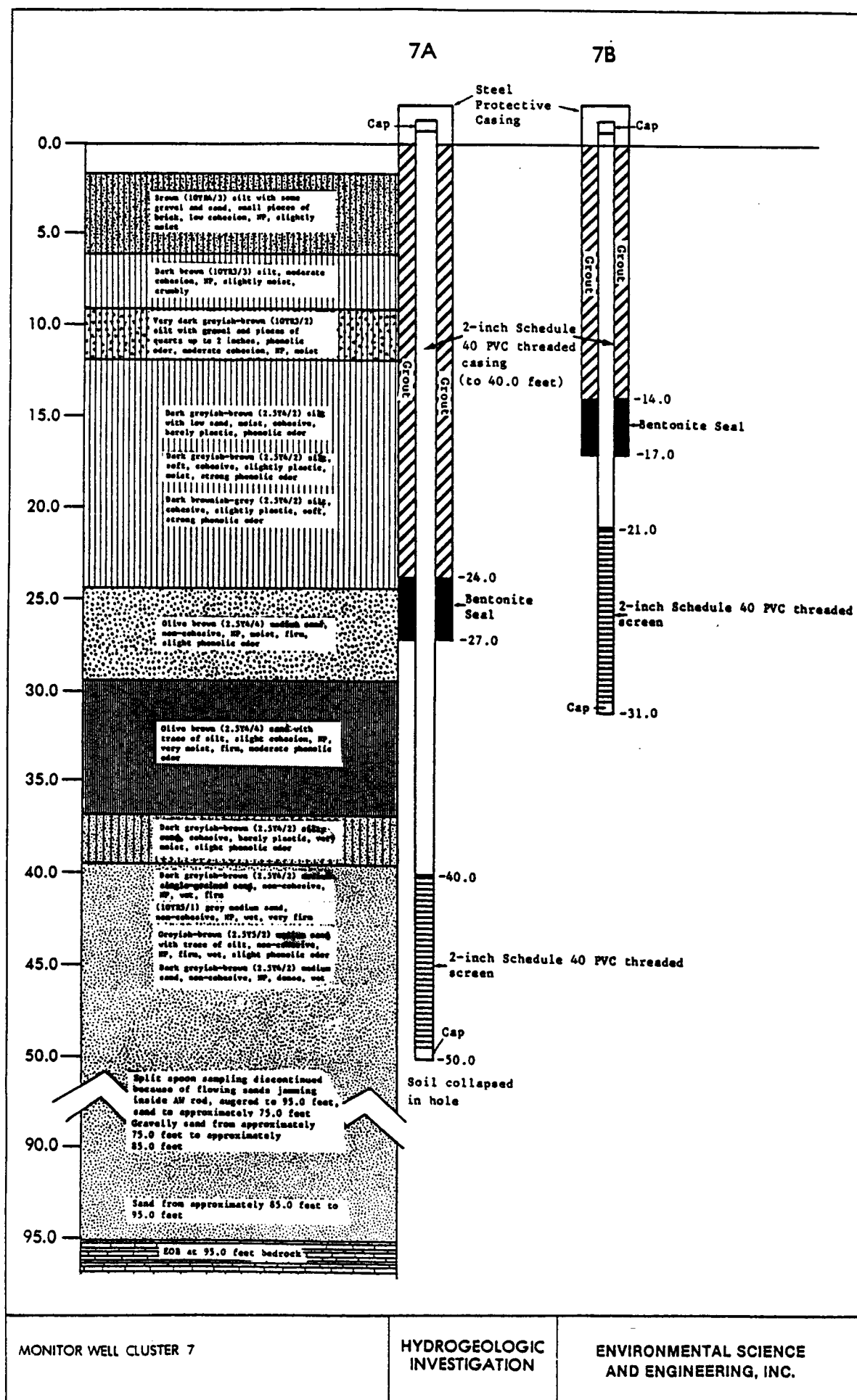




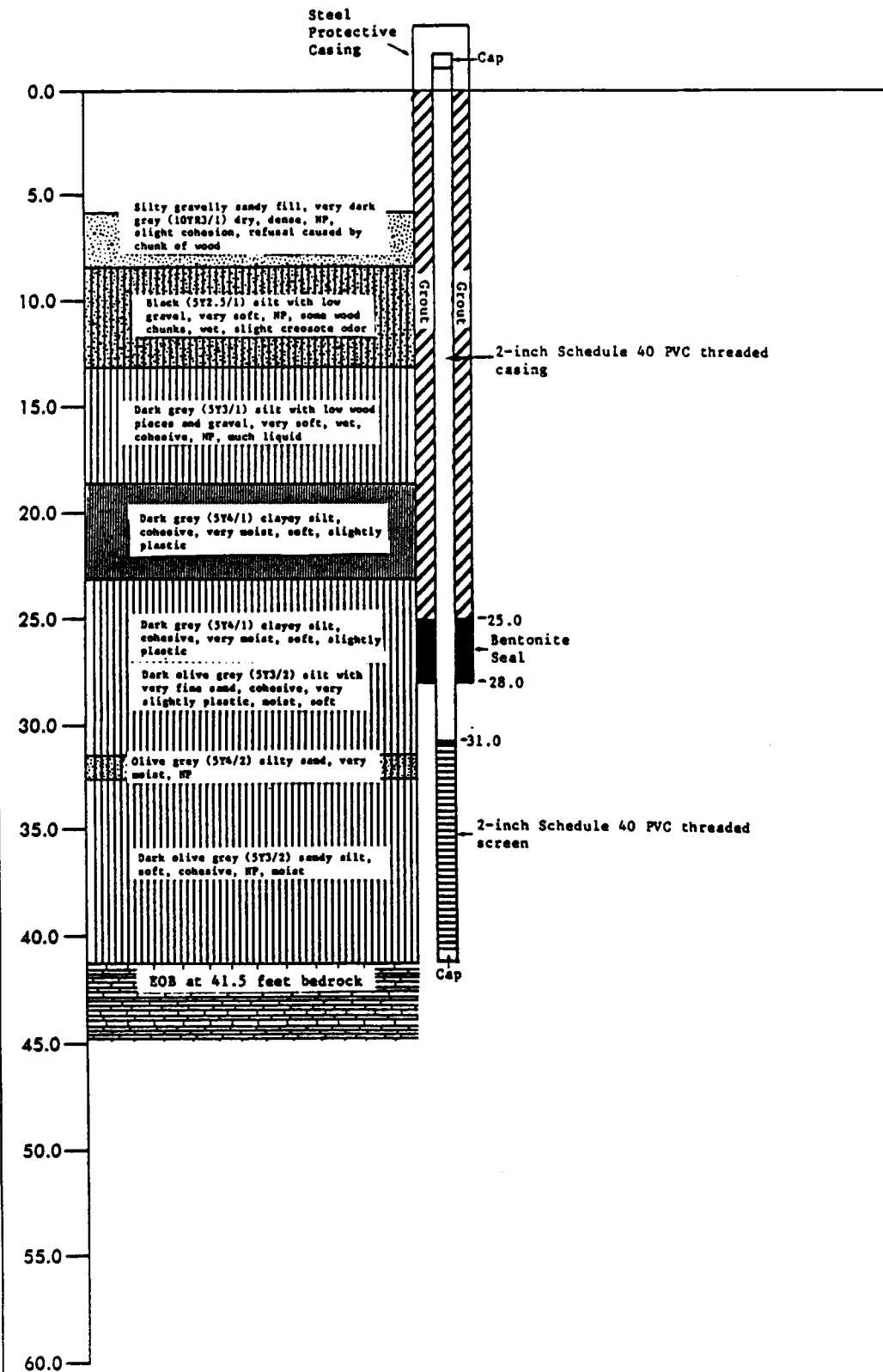








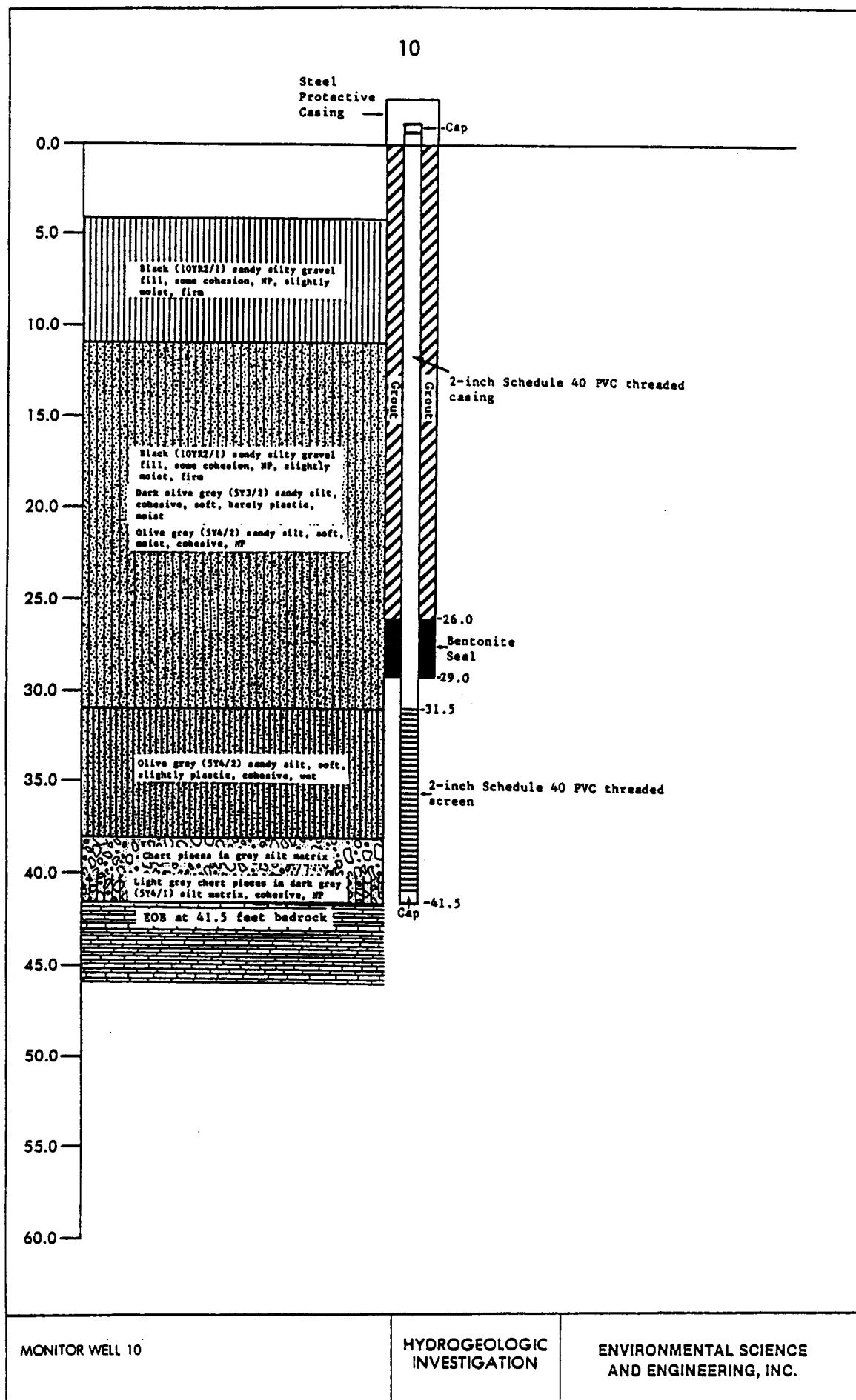
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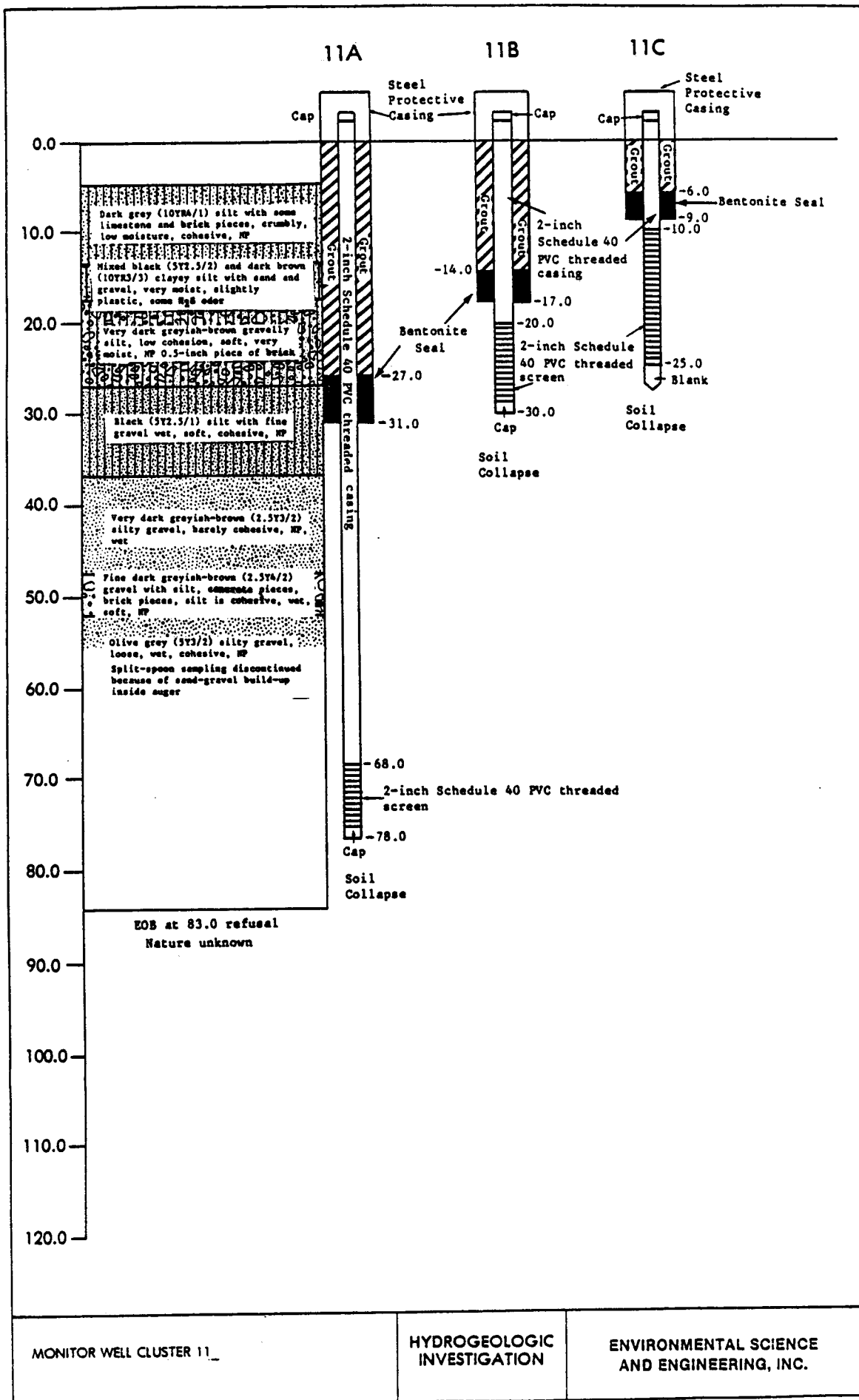


MONITOR WELL 9

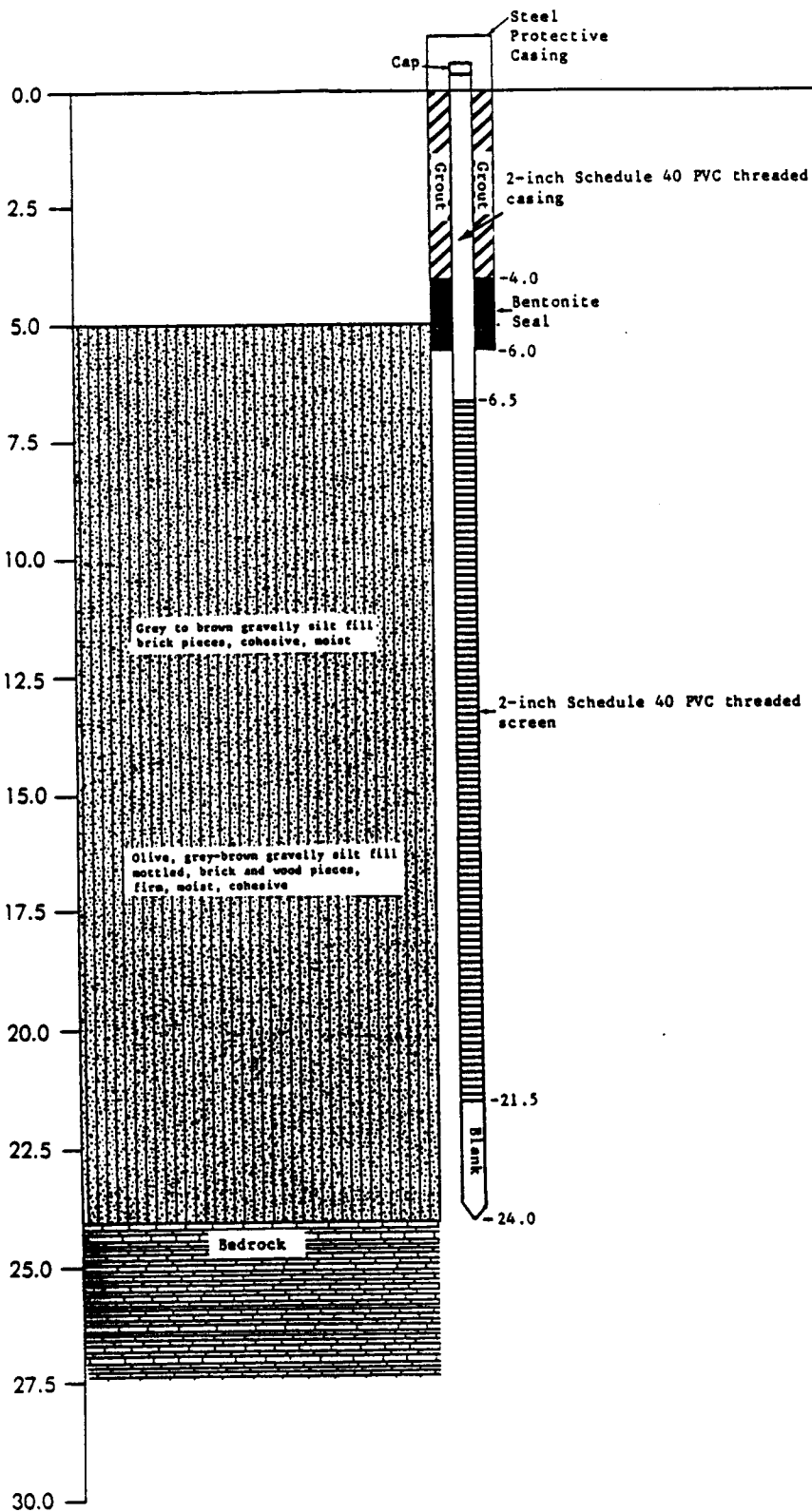
HYDROGEOLOGIC
INVESTIGATION

ENVIRONMENTAL SCIENCE
AND ENGINEERING, INC.





12.

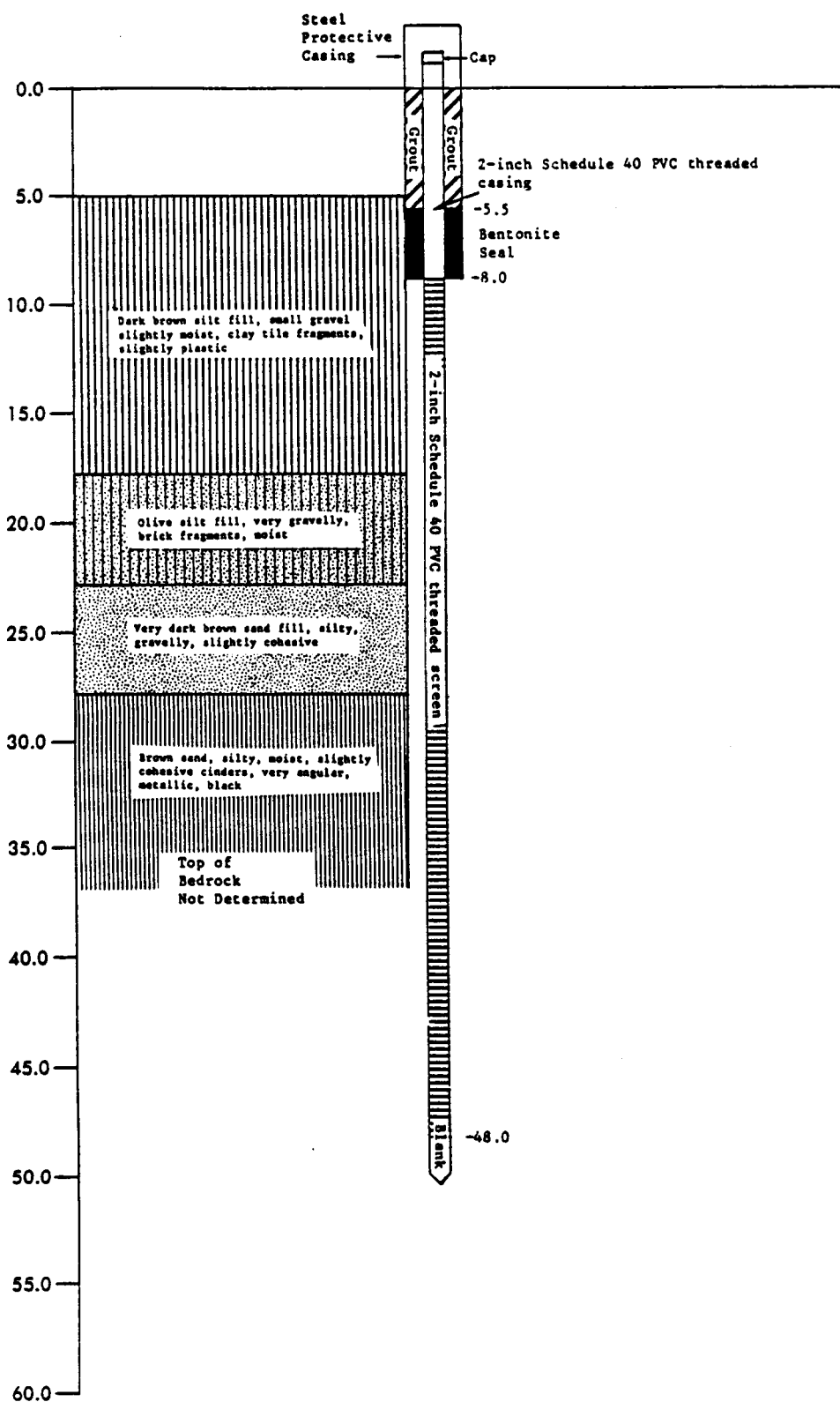


MONITOR WELL 12

HYDROGEOLOGIC
INVESTIGATION

ENVIRONMENTAL SCIENCE
AND ENGINEERING, INC.

13

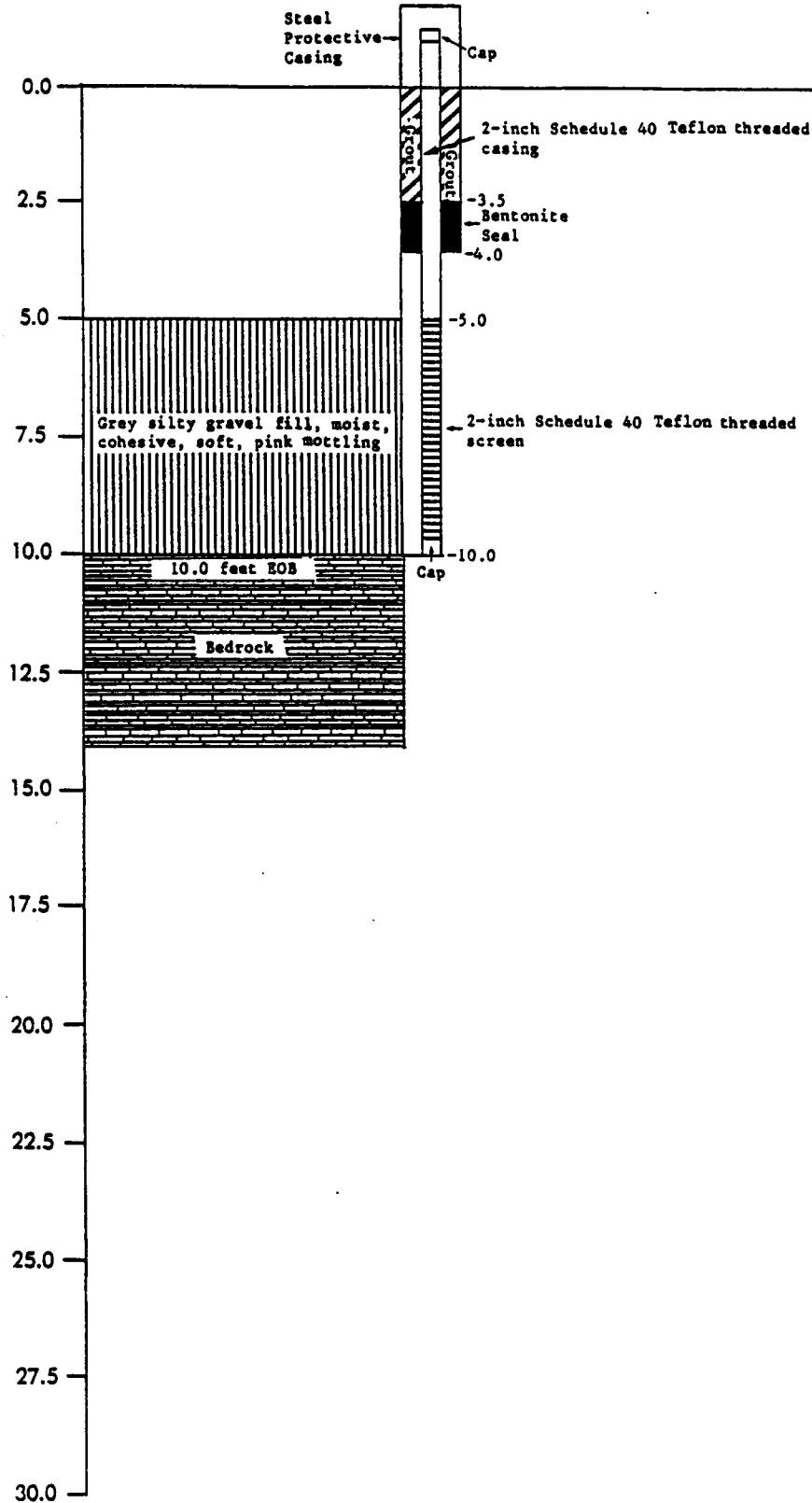


MONITOR WELL 13

HYDROGEOLOGIC
INVESTIGATION

ENVIRONMENTAL SCIENCE
AND ENGINEERING, INC.

14

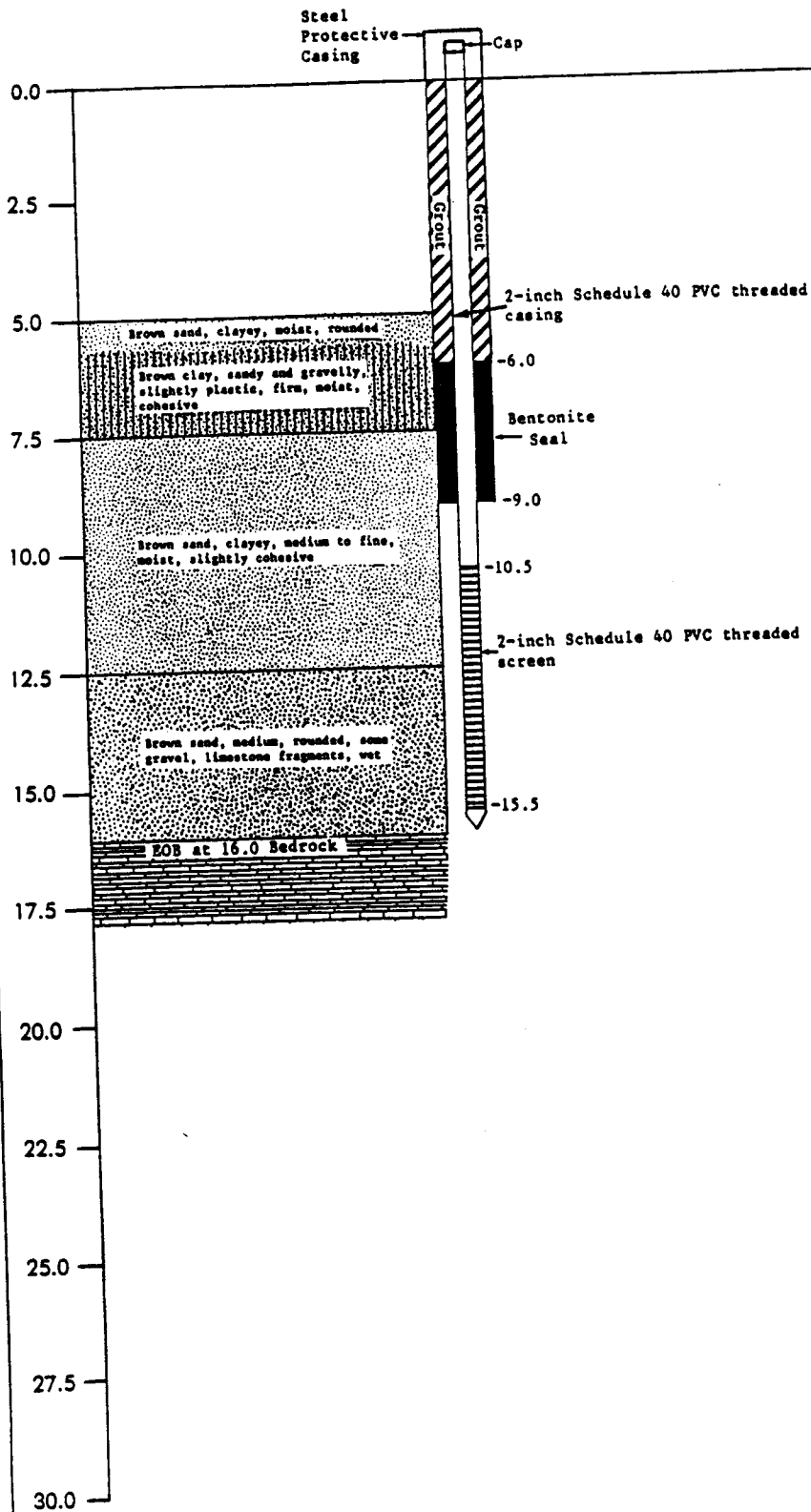


MONITOR WELL 14

HYDROGEOLOGIC
INVESTIGATION

ENVIRONMENTAL SCIENCE
AND ENGINEERING, INC.

15

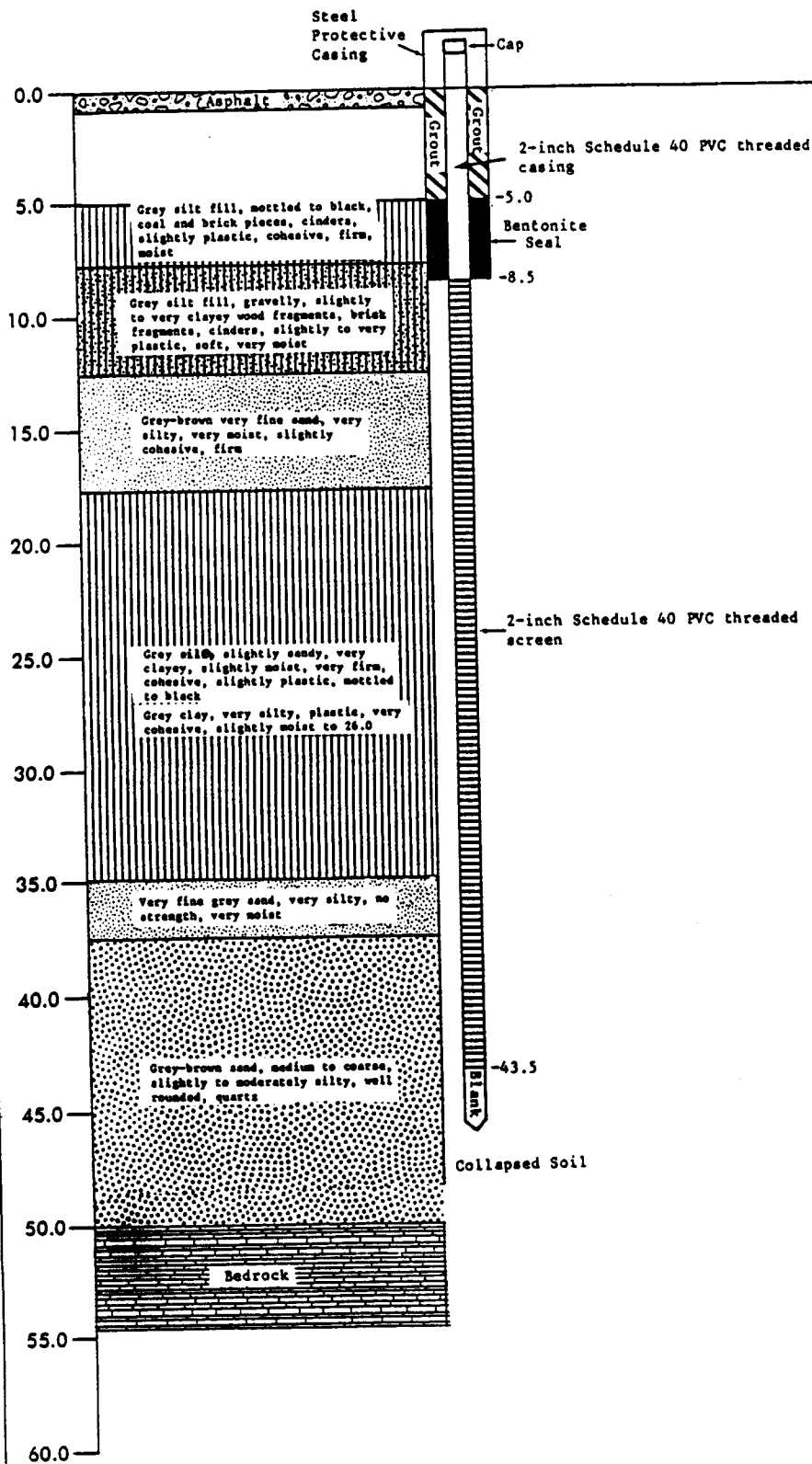


MONITOR WELL 15

HYDROGEOLOGIC
INVESTIGATION

ENVIRONMENTAL SCIENCE
AND ENGINEERING, INC.

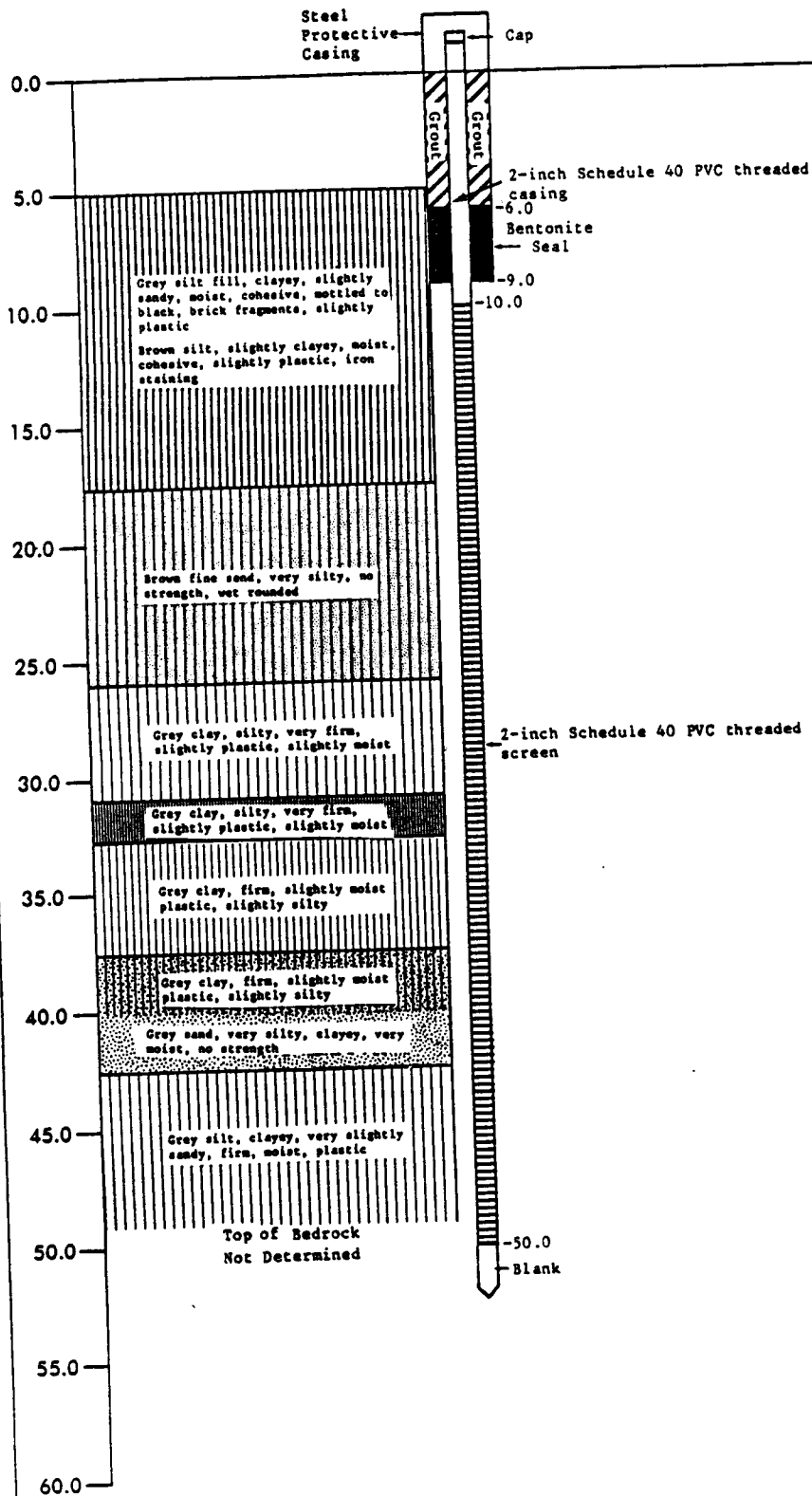
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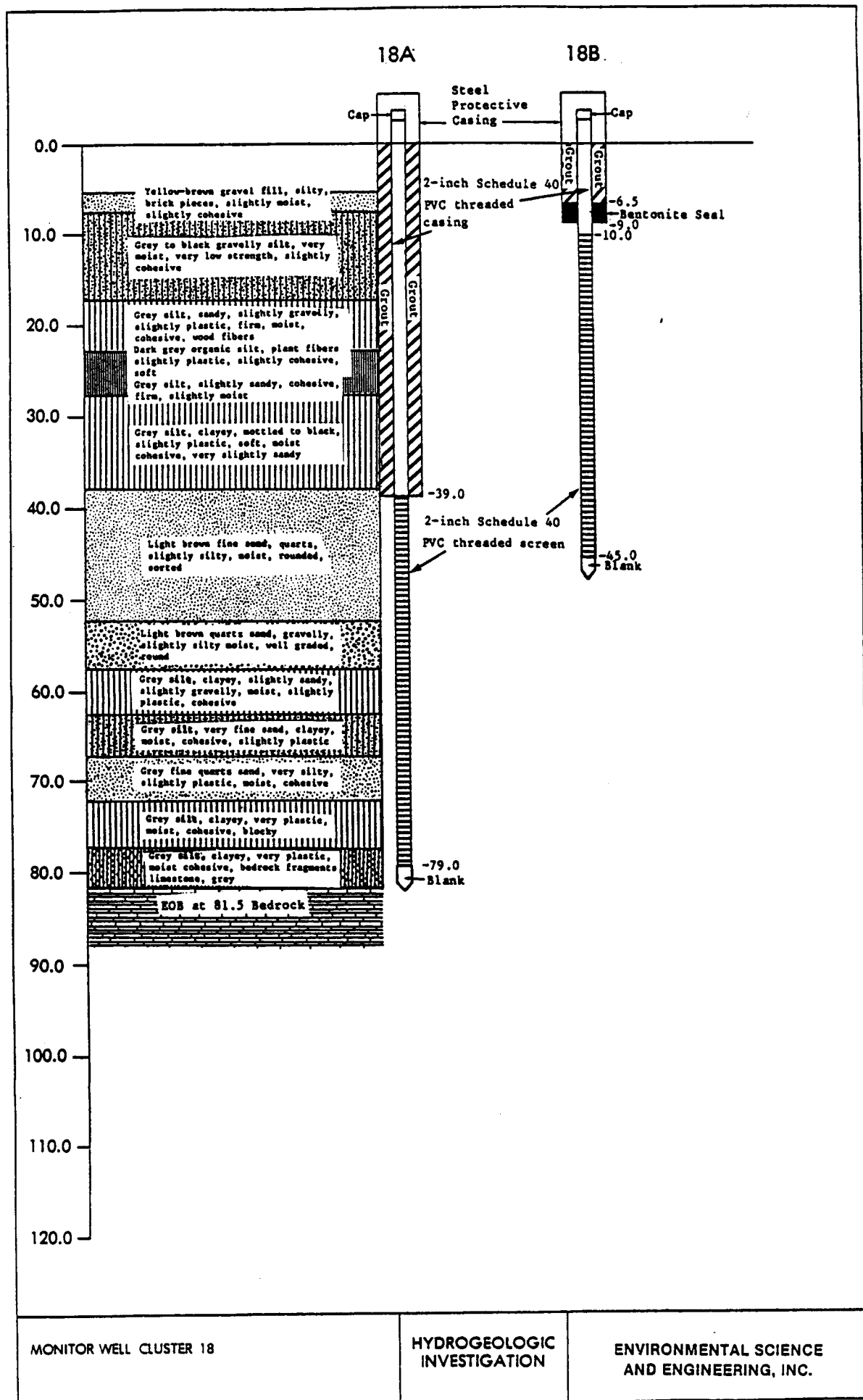


MONITOR WELL 16

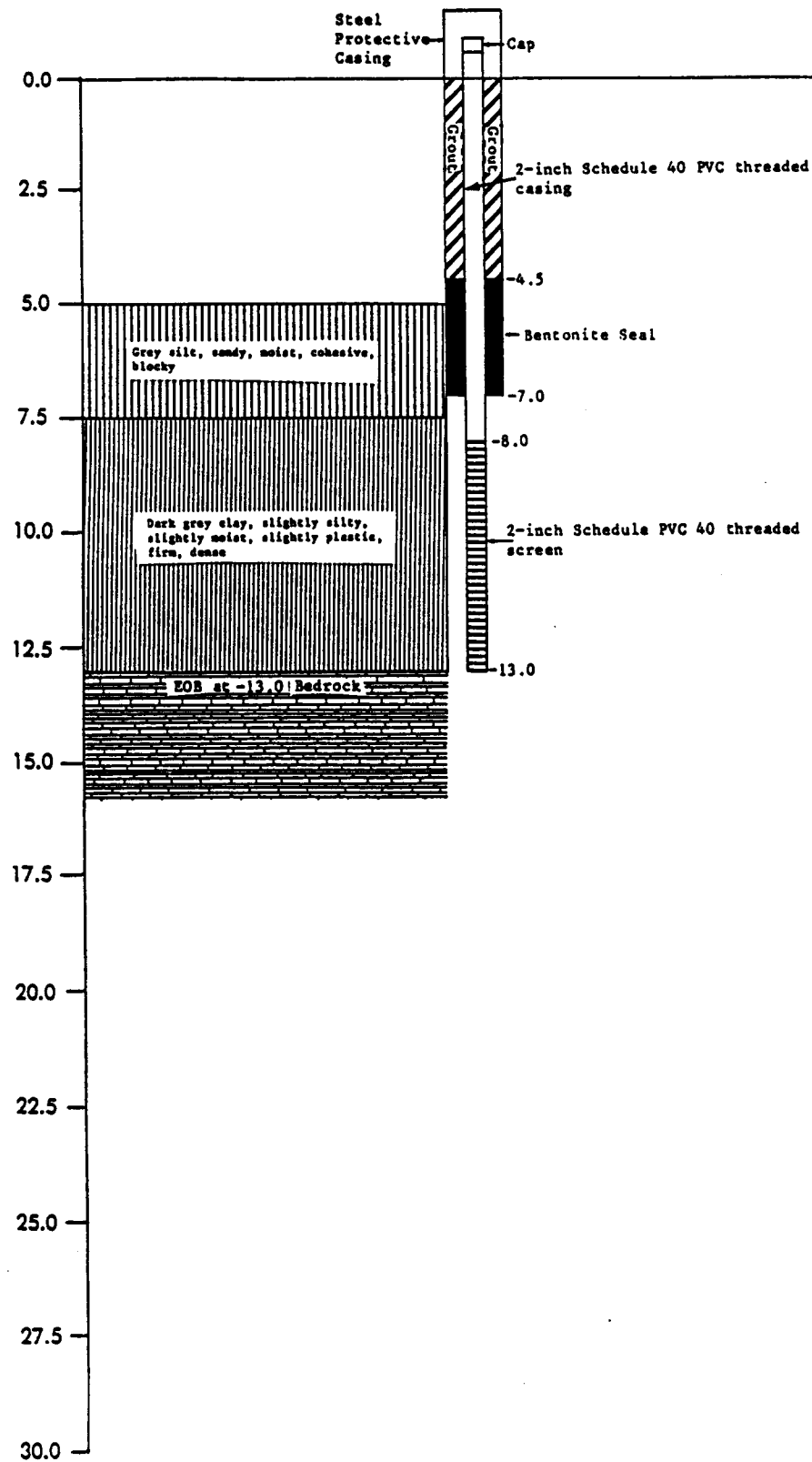
HYDROGEOLOGIC
INVESTIGATION

ENVIRONMENTAL SCIENCE
AND ENGINEERING, INC.





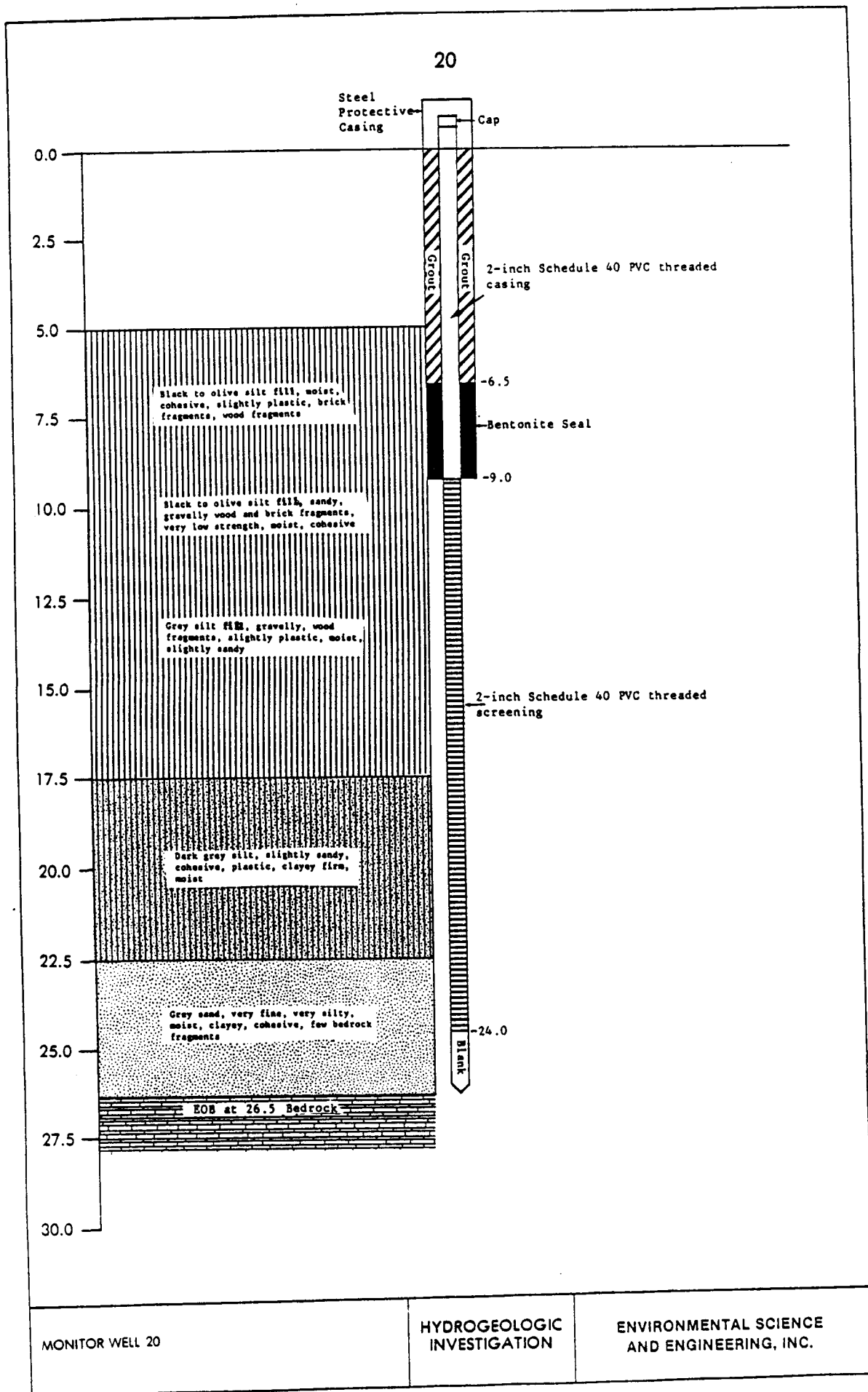
19



MONITOR WELL 19

HYDROGEOLOGIC
INVESTIGATION

ENVIRONMENTAL SCIENCE
AND ENGINEERING, INC.



CLIENT MONSANTO

PROJECT QUEENY - SUBSURFACE INVESTIGATION

GEOLOGIST KEN MEYER

WATER LEVEL		INITIAL	FINAL
1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
25	26	27	28
29	30	31	32
33	34	35	36
37	38	39	40
41	42	43	44
45	46	47	48
49	50	51	52
53	54	55	56
57	58	59	60
61	62	63	64
65	66	67	68
69	70	71	72
73	74	75	76
77	78	79	80
81	82	83	84
85	86	87	88
89	90	91	92
93	94	95	96
97	98	99	100

BORING NUMBER SB-8

CLIENT MONSANTO

DATE DRILLED 5-7-85

PROJECT QUEENY - SUBSURFACE INVESTIGATION

ELEVATION _____

GEOLOGIST KEN MEYER

DEPTH, FT.	SAMPLE INTERVAL	SAMPLE # AND TYPE	BLOWS PER 6 INCHES	DESCRIPTION AND REMARKS	DEPTH, FT.	USCS SYMBOL AND INTERVAL	WELL SKETCH
0.0							
5.0							
5.0		SB-B1	1 15" 3	GRAY-BROWN CLAY, SL. SILTY, SL. PLASTIC SL. MOIST, COHESIVE		CL	
		SB-B2	1 18" 2 4	GRAY MOTTLED CLAY, SL. SILTY, SL. TO MOD. PLASTIC, SL. MOIST, COHESIVE, FIRM		CL	
7.5		SB-B3	1 18" 3 5	GRAY CLAY, AS ABOVE TO 8.0' BROWN CLAY, FIRM, SL. SILTY, SL. MOIST COHESIVE NON-PLASTIC		CL	
10.0		SB-B4	1 18" 2 3	BROWN CLAY, MOTTLED, FIRM, STIFF SL. MOIST, COHESIVE, SL. SILTY SL. PLASTIC		CL	
12.5		SB-B5	1 1 2	MOTTLED GRAY BROWN SILTY CLAY WET - SATURATED, SL. PLASTIC		CL	
15.0							
17.5							
20.0							
22.5							
25.0							
27.5							
30.0							
32.5							
35.0							
37.5							
40.0							
42.5							
45.0							
47.5							
50.0							
52.5							
55.0							
57.5							
60.0							
62.5							
65.0							
67.5							
70.0							
72.5							
75.0							
77.5							
80.0							
82.5							
85.0							
87.5							
90.0							
92.5							
95.0							
97.5							
100.0							

METHOD OF DRILLING HOLLOW STEM AUGER

HOLE DIAMETER 7"

COMPLETION DEPTH _____

WATER LEVEL _____

WELL DIAMETER _____

WELL MATERIAL _____

WELL DEVELOPMENT _____

WATER LEVEL INITIAL _____ FINAL _____

CLIENT MONSANTO

PROJECT QUEENY - SUBSURFACE INVESTIGATION

GEOLOGIST KEN MEYER

METHOD OF DRILLING Hollow Stem Auger
HOLE DIAMETER 7"
COMPLETION DEPTH _____
WATER LEVEL 12'

WELL DIAMETER _____

WELL MATERIAL _____

WELL DEVELOPMENT _____

WATER LEVEL INITIAL _____ FINAL _____

CLIENT MONSANTO

PROJECT QUEENY - SUBSURFACE INVESTIGATION

GEOLOGIST KEN MEYER

METHOD OF DRILLING HOLLOW STEM AUGER
HOLE DIAMETER 7"
COMPLETION DEPTH _____
WATER LEVEL 11.5'

WELL DIAMETER _____
WELL MATERIAL _____
WELL DEVELOPMENT _____
WATER LEVEL INITIAL _____ FINAL _____

BORING NUMBER SB-E / MWA

CLIENT MONSANTO

DATE DRILLED 5-11-85

PROJECT QUEENY - SURFACE INVESTIGATION

ELEVATION _____

GEOLOGIST KEN MEYER

DEPTH, FT.	SAMPLE INTERVAL	SAMPLE # AND TYPE	BLOWS PER 6 INCHES	DESCRIPTION AND REMARKS	DEPTH, FT.	USCS SYMBOL AND INTERVAL	WELL SKETCH
0.0							
2.5							
		SB-E1	1 18"	BROWN - GRAY CLAY, FIRM, SL. PLASTIC COHESIVE SL. SILTY, SL. MOIST		CL	
5.0			2				
		SB-E2	1 18"	BROWN - GRAY CLAY AS ABOVE		CL	
			2				
7.5							
		SB-E3	1 18"	BROWN - GRAY CLAY AS ABOVE		CL	
			2				
			3				
10.0							
		SB-E4	1 18"	BROWN GRAY CLAY AS ABOVE TO 11.0'		CL	
			3	DARK BROWN SILTY CLAY, CRUMBLY, SL. MOIST			
			4				
12.5							
		SB-E5	1 18"	DARK GRAY CLAYEY SILT, MOIST, PLASTIC COHESIVE		MH	
			2				
15.0							
		SB-E6	1 18"	GRAY CLAYEY SILT AS ABOVE TO 16.0'		ML	
			3	LT. BROWN CLAYEY SILT, SL. SANDY, COHESIVE			
			4	SL. SANDY, MOTTLED			
17.5							
		SB-E7	1 18"	BROWN CLAYEY SILT, MOTTLED, SL. SANDY WORM TUBES, COHESIVE SL. PLASTIC		ML	
			2				
20.0							

METHOD OF DRILLING HOLLOW STEM AUGER
HOLE DIAMETER 7"
COMPLETION DEPTH 30.0'
WATER LEVEL _____

WELL DIAMETER 2"
WELL MATERIAL TEFLON
WELL DEVELOPMENT SURGE + PUMP
WATER LEVEL INITIAL _____ FINAL _____

BORING NUMBER SBE / mw A

CLIENT MONSANTO

DATE DRILLED _____

PROJECT QUEENY - SUBSURFACE INVESTIGATION

ELEVATION _____

GEOLOGIST KEN MEYER

DEPTH, FT.	SAMPLE INTERVAL	SAMPLE # AND TYPE	BLOWS PER 6 INCHES	DESCRIPTION AND REMARKS	DEPTH, FT.	USCS SYMBOL AND INTERVAL	WELL SKETCH
20.0							
	SB-E8	1 3 18"		LT. BROWN V. SILTY, V. FINE SAND STRATIFIED, IRON STAINING, WELL SORTED		sm	
22.5							
	SB-E9	1 3 18"		LT. BROWN V. SILTY FINE SAND, STRATIFIED, IRON STAINING, SL. CLAYEY SORTED		sm	
25.0							
	SB-E10	4 5 18" 6		LT. BROWN SILTY FINE SAND, TURNING GRAY, HARD, STRATIFIED		sm	
27.5							
	SB-E11	3 6 18" 12		FINE TO MEDIUM SAND DARK GRAY HARD, STRATIFIED, WELL GRADED		SW	
30.0							
	SB-E12	3 6 18" 8		FINE TO MEDIUM SAND - AS ABOVE		SW	
32.5				BEDROCK			

METHOD OF DRILLING Hollow Stem Auger

WELL DIAMETER 2"

HOLE DIAMETER 7"

WELL MATERIAL TEFLON

COMPLETION DEPTH 30.0

WELL DEVELOPMENT SURGE + PUMP

WATER LEVEL _____

WATER LEVEL INITIAL _____ FINAL _____

BORING NUMBER MW B

CLIENT MONSANTO

DATE DRILLED 5-10-85

PROJECT QUEENY - SUBSURFACE INVESTIGATION

ELEVATION _____

GEOLOGIST KEN MEYER

DEPTH, FT.	SAMPLE INTERVAL	SAMPLE # AND TYPE	BLOWS PER 6 INCHES	DESCRIPTION AND REMARKS	DEPTH, FT.	USCS SYMBOL AND INTERVAL	WELL SKETCH
0				SEE DESCRIPTION FOR SB-E/ MW-A	0		
2.5					2.5		
5.0					5.0		
7.5					7.5		
10.0					10.0		
12.5					12.5		
15.0					15.0		
17.5					17.5		

METHOD OF DRILLING HOLLOW STEM AUGER
HOLE DIAMETER 7"
COMPLETION DEPTH 17'
WATER LEVEL _____

WELL DIAMETER 2"
WELL MATERIAL TEFLON
WELL DEVELOPMENT SURGE + PUMP
WATER LEVEL INITIAL _____ FINAL _____

CLIENT MONSANTO

PROJECT QUEENY - SUBSURFACE INVESTIGATION

GEOLOGIST KEN MEYER

METHOD OF DRILLING Hollow Stem Auger
HOLE DIAMETER 7"
COMPLETION DEPTH _____
WATER LEVEL _____

WELL DIAMETER _____

WELL MATERIAL _____

WELL DEVELOPMENT _____

WATER LEVEL INITIAL _____ FINAL _____

BORING NUMBER SB-H

CLIENT MONSANTO

DATE DRILLED 5-8-85

PROJECT QUEENY-SUBSURFACE INVESTIGATION

ELEVATION _____

GEOLOGIST KEN MEYER

DEPTH, FT.	SAMPLE INTERVAL	SAMPLE # AND TYPE	BLOWS PER 6 INCHES	DESCRIPTION AND REMARKS	DEPTH, FT.	USCS SYMBOL AND INTERVAL	WELL SKETCH
0.0							
2.5							
		SB-H1	1 4 15" 5	GRAY CLAY, SL MOTTLED, FIRM, COHESIVE V. SL. PLASTIC, MOIST		CL	
-5.0		SB-H2	1 2 15" 4	GRAY CLAY, SL. MOTTLED, V. FIRM, SL. SILTY COHESIVE, SL. MOIST		CL	
-7.5		SB-H3	1 4 17" 5	GRAY CLAY AS ABOVE TO 8.5 GRAY MOTTLED CLAY, CRUMBLY SL. MOIST SL. SILTY		CL CL	
-10.0		SB-H4	1 3 18" 3	GRAY MOTTLED CLAY SL. CRUMBLY SL. PLASTIC MOIST SL. SILTY		CL	
-12.5			1				

METHOD OF DRILLING HOLLOW STEM AUGER

WELL DIAMETER _____

HOLE DIAMETER 7"

WELL MATERIAL _____

COMPLETION DEPTH _____

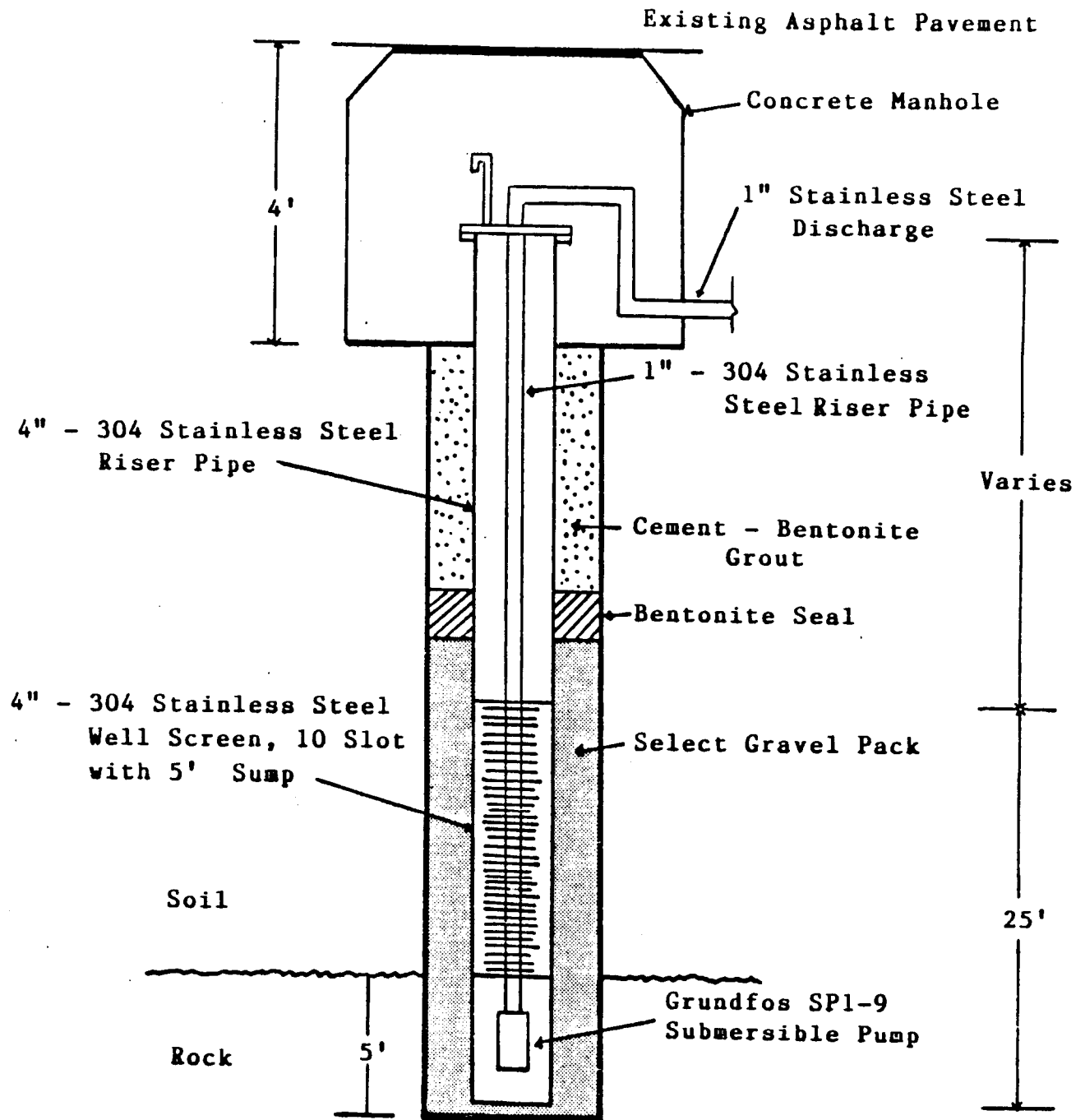
WELL DEVELOPMENT _____

WATER LEVEL _____

WATER LEVEL INITIAL _____ FINAL _____



Brotcke Engineering

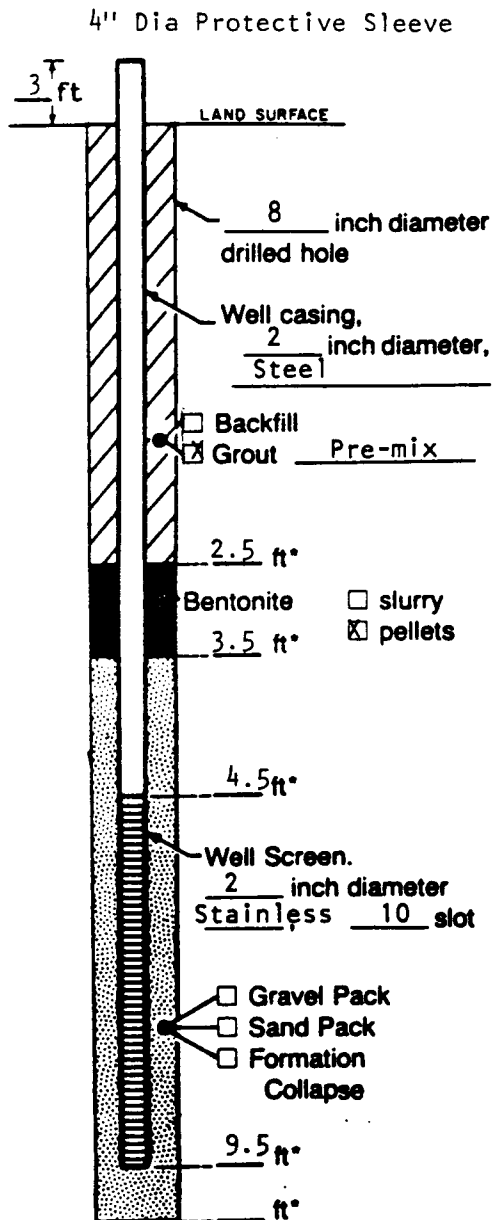


**Typical PCE Recovery Well
Monsanto - Queeny Plant
St. Louis, Missouri**

[illegible]

SAMPLE/CORE LOG

WELL CONSTRUCTION LOG



Measuring Point is Top of Well Casing Unless Otherwise Noted.

*Depth Below Land Surface

Project Monsanto N0308QU2 Well GM-3

Town/City St. Louis

County St. Louis State MO

Permit No. _____

Land-Surface Elevation and Datum _____ feet ☐ surveyed
☐ estimated

Installation Date(s) 11/18/19/86

Drilling Method Hollow Stem Auger

Drilling Contractor John Mathes

Drilling Fluid None

Development Techniques(s) and Date(s)
Bailing 11/20/86

Fluid Loss During Drilling None gallons

Water Removed During Development 7.5 gallons

Static Depth to Water 2' below ground feet below M.P.

Pumping Depth to Water _____ feet below M.P.

Pumping Duration _____ hours

Yield _____ gpm Date _____

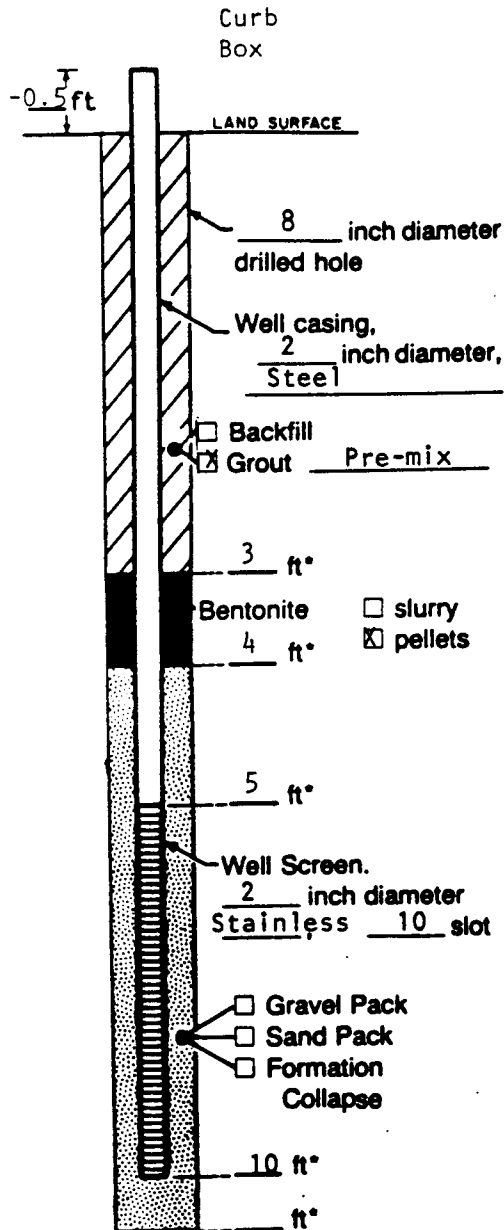
Specific Capacity _____ gpm/ft

Well Purpose Monitoring

Remarks At first the boring did not have water.
However, it filled in overnight. Bailed dry during
development.

Prepared by Brian A. Blum

WELL CONSTRUCTION LOG



Measuring Point is Top of Well Casing Unless Otherwise Noted.

*Depth Below Land Surface

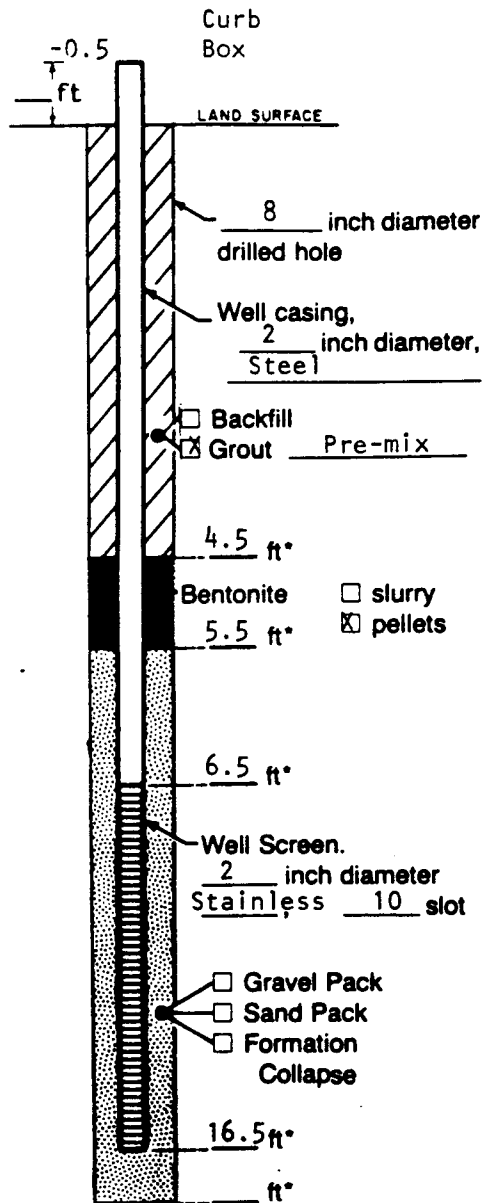
Project Monsanto N0308QU2 Well GM-4
 Town/City St. Louis
 County St. Louis State MO
 Permit No. _____
 Land-Surface Elevation _____ feet ☐ surveyed
 and Datum _____ ☐ estimated
 Installation Date(s) 11/20/86
 Drilling Method Hollow Stem Auger
 Drilling Contractor John Mathes
 Drilling Fluid None
 Development Techniques(s) and Date(s)
Bailing 11/20/86
 Fluid Loss During Drilling None gallons
 Water Removed During Development 15 gallons
 Static Depth to Water 2 below ground feet below M.P.
 Pumping Depth to Water _____ feet below M.P.
 Pumping Duration _____ hours
 Yield _____ gpm Date _____
 Specific Capacity _____ gpm/ft
 Well Purpose Monitoring

Remarks _____

Prepared by Brian A. Blum

SAMPLE/CORE LOG

WELL CONSTRUCTION LOG



Measuring Point is Top of
Well Casing Unless Otherwise
Noted.

*Depth Below
Land Surface

Project Monsanto N0308QU2 Well GM-5
 Town/City St. Louis
 County St. Louis State MO
 Permit No. _____
 Land-Surface Elevation _____ feet ☐ surveyed ☐ estimated
 Installation Dates(s) 11/21/86
 Drilling Method Hollow Stem Auger
 Drilling Contractor John Mathes
 Drilling Fluid None
 Development Techniques(s) and Date(s) Bailing
 Fluid Loss During Drilling None gallons
 Water Removed During Development _____ gallons
 Static Depth to Water _____ feet below M.P.
 Pumping Depth to Water _____ feet below M.P.
 Pumping Duration _____ hours
 Yield _____ gpm Date _____
 Specific Capacity _____ gpm/ft
 Well Purpose Monitoring
 Remarks _____

Prepared by Brian A. Blum

[illegible]

SAMPLE/CORE LOG

SAMPLE/CORE LOG